

SRS AIRBAG

PRECAUTION

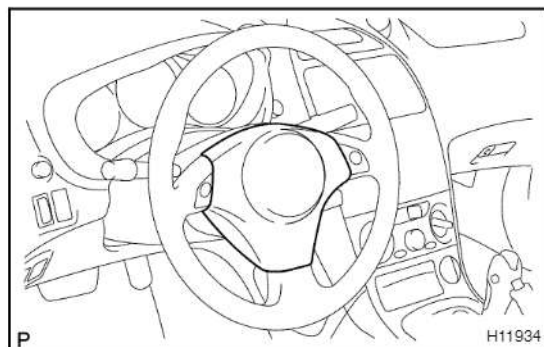
RS0J0-12

CAUTION:

- The CELICA is equipped with SRS, which comprises a driver airbag, front passenger airbag and side airbag. Failure to carry out service operations in the correct sequence could cause the SRS to unexpectedly deploy during servicing, possibly leading to a serious accident. Further, if a mistake is made in servicing the SRS, it is possible that the SRS may fail to operate when required. Before performing servicing (including removal or installation of parts, inspection or replacement), be sure to read the following items carefully, then follow the correct procedures described in the repair manual.
- Work must be started 90 seconds after the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.
(The SRS is equipped with a back-up power source so that if work is started within 90 seconds from disconnecting the negative (-) terminal cable of the battery, the SRS may be deployed.)
- Do not expose the steering wheel pad, front passenger airbag assembly, side airbag assembly, airbag sensor assembly, front airbag sensor, side airbag sensor assembly or door side airbag sensor directly to hot air or flames.

NOTICE:

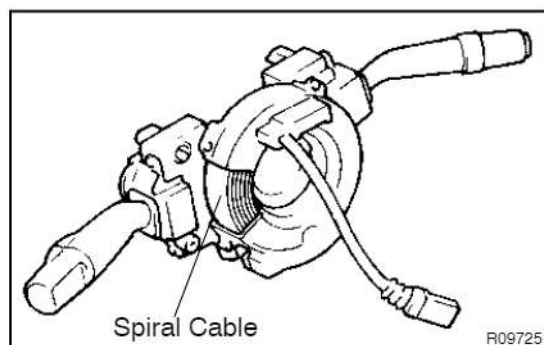
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- Even in cases of a minor collision where the SRS does not deploy, the steering wheel pad, front passenger airbag assembly, side airbag assembly, airbag sensor assembly, front airbag sensor, side airbag sensor assembly and door side airbag sensor should be inspected.
(See page RS-14, RS-28, RS-42, RS-54, RS-59, RS-64 and RS-69)
- Before repairs, remove the airbag sensor if shocks are likely to be applied to the sensor during repairs.
- Never use SRS parts from another vehicle. When replacing parts, replace them with new parts.
- Never disassemble and repair the steering wheel pad, front passenger airbag assembly, side airbag assembly, airbag sensor assembly, front airbag sensor, side airbag sensor assembly or door side airbag sensor in order to reuse it.
- If the steering wheel pad, front passenger airbag assembly, side airbag assembly, airbag sensor assembly, front airbag sensor, side airbag sensor assembly or door side airbag sensor has been dropped, or if there are cracks, dents or other defects in the case, bracket or connector, replace it with new one.
- Use a volt/ohmmeter with high impedance (10 k Ω /V minimum) for troubleshooting the system's electrical circuits.
- Information labels are attached to the periphery of the SRS components. Follow the instructions on the notices.
- After work on the SRS is completed, perform the SRS warning light check (See page DI-884).
- When the negative (-) terminal cable is disconnected from the battery, the memory of the clock and audio system will be canceled. So before starting work, make a record of the contents memorized in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. To avoid erasing the memory in each memory system, never use a back-up power supply from outside the vehicle.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section.



OPERATION

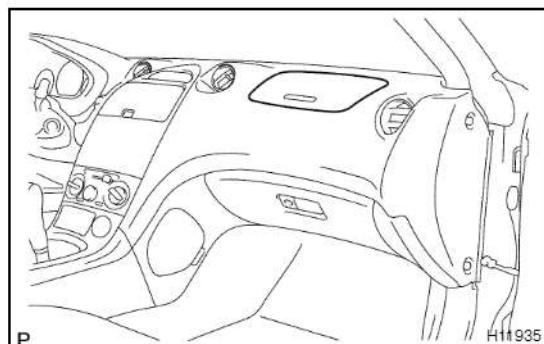
1. STEERING WHEEL PAD (with AIRBAG)

The inflator and bag of the SRS are stored in the steering wheel pad and cannot be disassembled. The inflator contains a squib, igniter charge, gas generator, etc., and inflates the bag when instructed by the airbag sensor assembly.



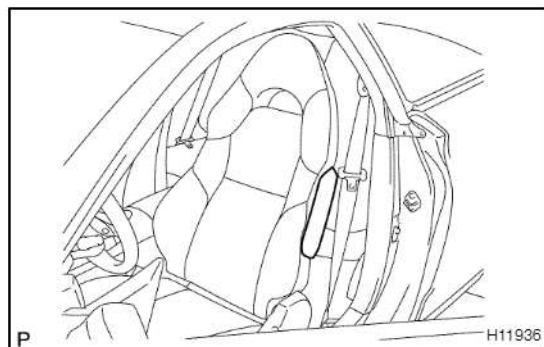
2. SPIRAL CABLE (in COMBINATION SWITCH)

A spiral cable is used as an electrical joint from the vehicle body side to the steering wheel.



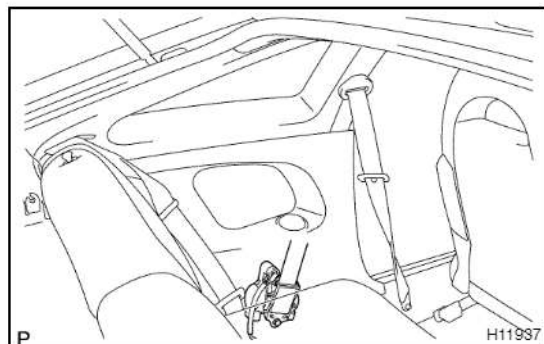
3. FRONT PASSENGER AIRBAG ASSEMBLY

The inflator and bag of the SRS are stored in the front passenger airbag assembly and cannot be disassembled. The inflator contains a squib, igniter charge, gas generator, etc., and inflates the bag when instructed by the airbag sensor assembly.



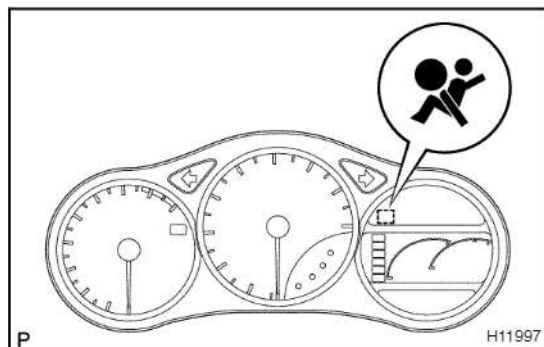
4. SIDE AIRBAG ASSEMBLY

The inflator and bag of the SRS side airbag are stored in the side airbag assembly and cannot be disassembled. The inflator contains a squib, igniter charge, gas generator, etc., and inflates the bag when instructed by the side airbag sensor assembly.



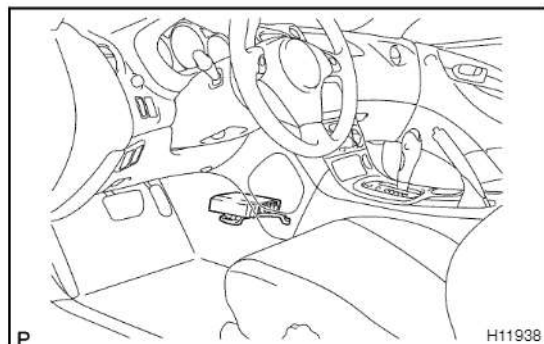
5. SEAT BELT PRETENSIONER

The seat belt pretensioner system is a component of the front seat outer belt. The pretensioner contains a squib, gas generator, wire, piston, etc., and operates in the event of a frontal collision. The seat belt pretensioner cannot be disassembled.



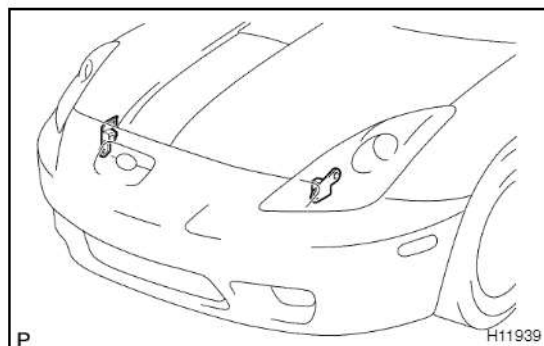
6. SRS WARNING LIGHT

The SRS warning light is located on the combination meter. It goes on to alert the driver of trouble in the system when a malfunction is detected in the airbag sensor assembly self-diagnosis. In normal operation conditions when the ignition switch is turned to the ON position, the light goes on for about 6 seconds and then goes off.



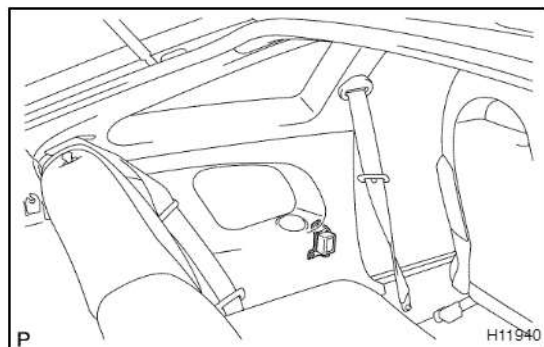
7. AIRBAG SENSOR ASSEMBLY

The airbag sensor assembly is mounted on the floor inside the lower center finish panel. The airbag sensor assembly consists of an airbag sensor, safing sensor, diagnosis circuit, ignition control, drive circuit, etc. It receives signals from the airbag sensor, front airbag sensor, side airbag sensor assembly and door side airbag assembly and judges whether the SRS must be activated or not. The airbag sensor assembly cannot be disassembled.



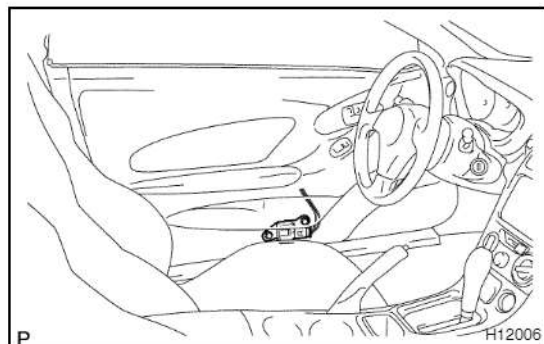
8. FRONT AIRBAG SENSOR

The front airbag sensor is mounted inside each of the side members. The sensor unit is a mechanical type. When the sensor detects deceleration force above a predetermined limit, contact is made in the sensor, sending a signal to the airbag sensor assembly. The front airbag sensor cannot be disassembled.



9. SIDE AIRBAG SENSOR ASSEMBLY

The side airbag sensor assembly is mounted in the LH and RH center pillars. The side airbag sensor assembly consists of a lateral deceleration sensor, safing sensor, diagnosis circuit, etc. It sends signals to the airbag sensor assembly to judge whether the SRS side airbag must be activated or not. The side airbag sensor assembly cannot be disassembled.

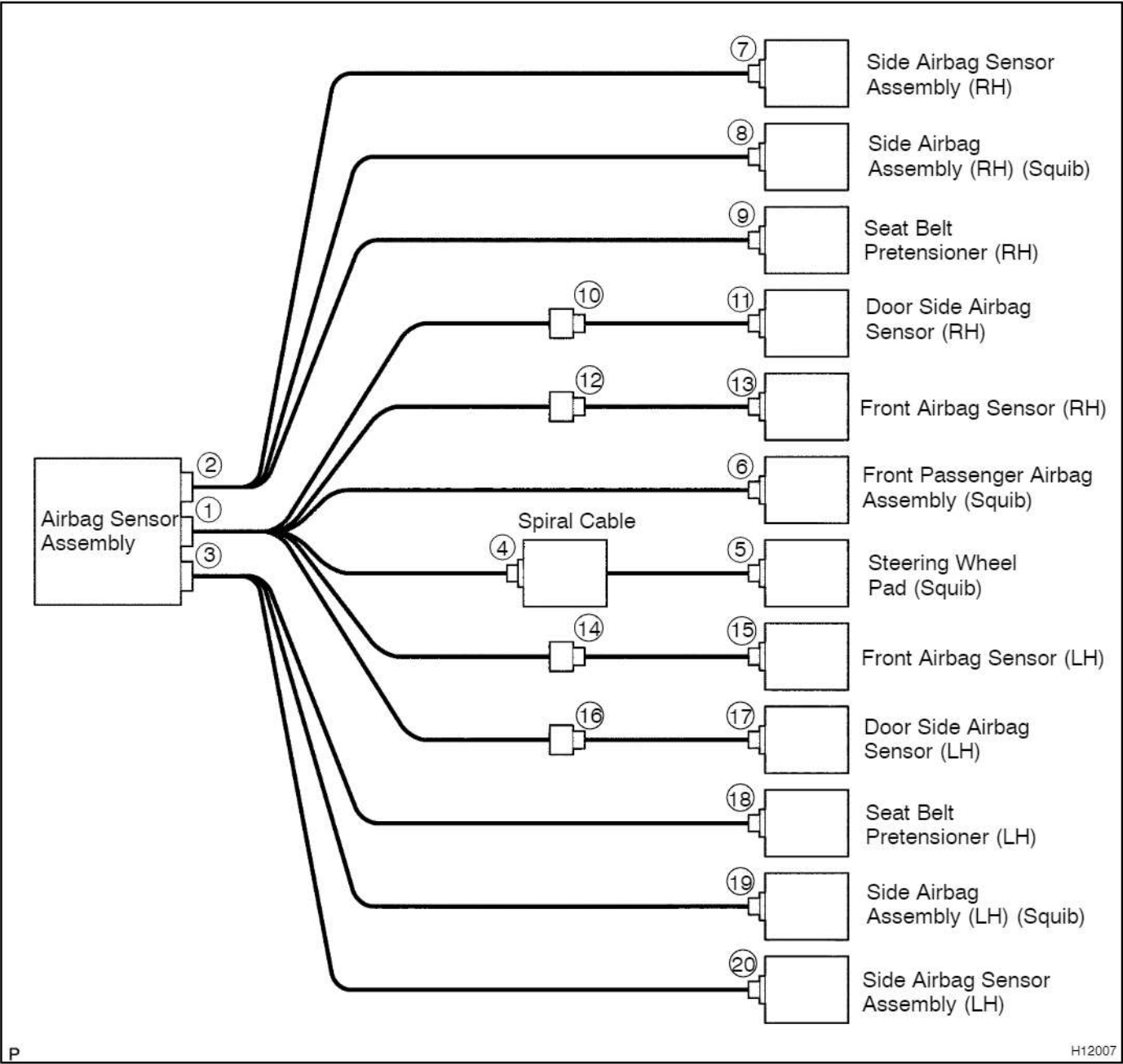


10. DOOR SIDE AIRBAG SENSOR

The door side airbag sensor is mounted on each of the door inside panel. The sensor unit is a mechanical type. When the sensor detects deceleration force above a predetermined limit, contact is made in the sensor, sending a signal to the airbag sensor assembly. The door side airbag sensor cannot be disassembled.

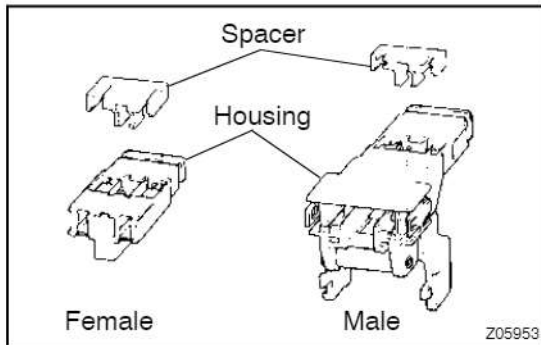
11. SRS CONNECTORS

HINT:
SRS connectors are located as shown in the following illustration.

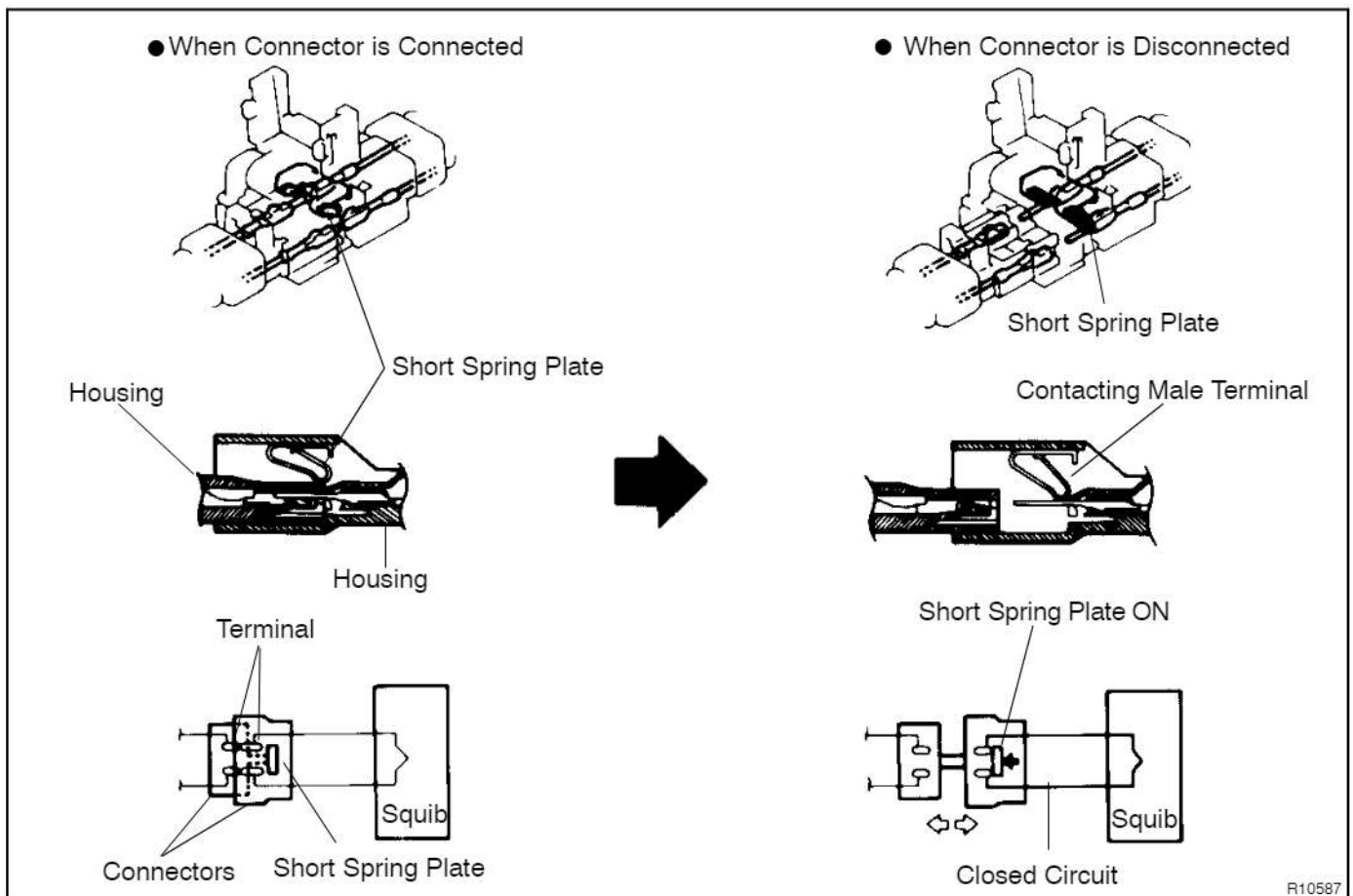


No.	Item	Application
(1)	Terminal Twin-Lock Mechanism	Connectors 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
(2)	Airbag Activation Prevention Mechanism	Connectors 1, 2, 3, 4, 5, 6, 8, 19
(3)	Electrical Connection Check Mechanism	Connectors 1, 2, 3

- (a) All connectors in the SRS are colored in yellow to distinguish them from other connectors. Connectors having special functions and specifically designed for the SRS are used in the locations shown on the previous page to ensure high reliability. These connectors use durable gold-plated terminals.



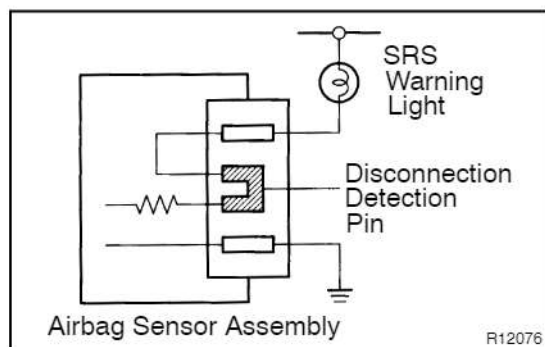
- (1) **Terminal Twin-Lock Mechanism**
Each connector has a two-piece component consisting of a housing and a spacer. This design enables the terminal to be locked securely by two locking devices (the retainer and the lance) to prevent terminals from coming out.
- (2) **Airbag Activation Prevention Mechanism**
Each connector contains a short spring plate. When the connector is disconnected, the short spring plate automatically connects positive (+) terminal and negative (-) terminal of the squib.



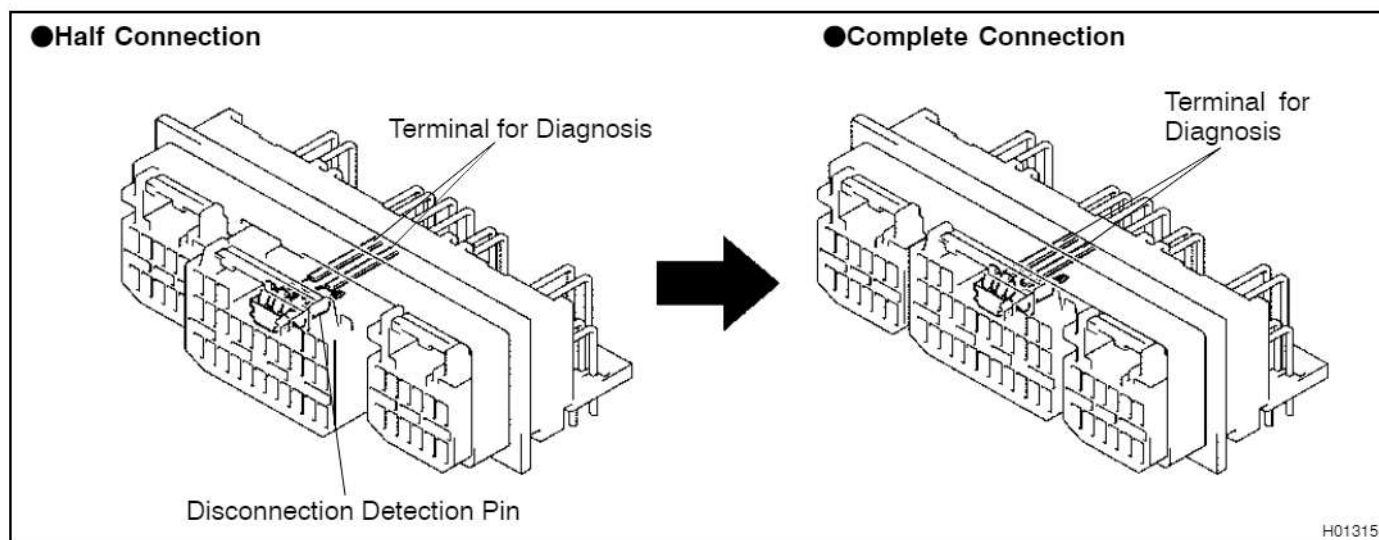
R10587

HINT:

The type of connector is shown in the diagram on the previous page.

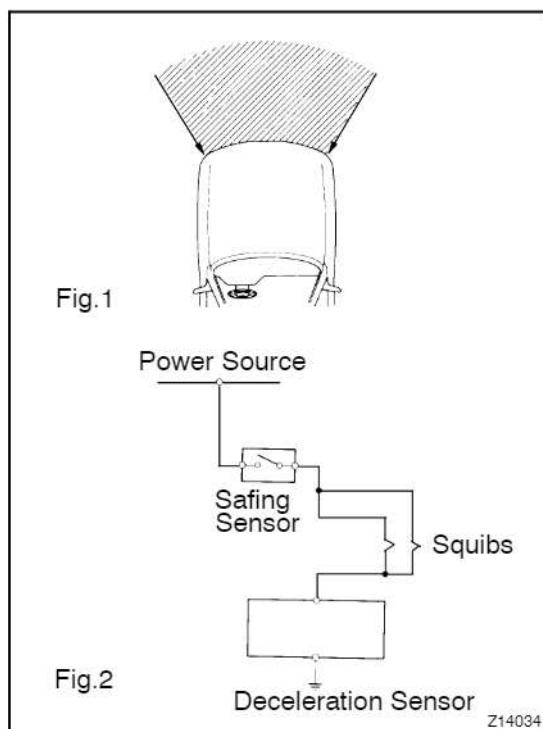


- (3) **Electrical Connection Check Mechanism**
This mechanism electrically checks that connectors are connected correctly and completely. The electrical connection check mechanism is designed so that the disconnection detection pin connects with the diagnosis terminals when the connector housing lock is locked.

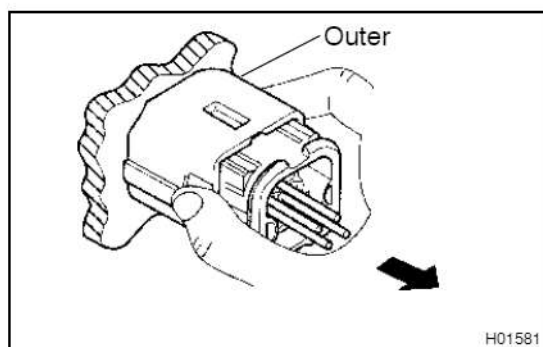


HINT:

The illustration shows connectors "1", "2" and "3" in step 11.



- (b) When the vehicle is involved in a frontal collision in the hatched area (Fig. 1) and the shock is larger than the pre-determined level, the SRS is activated automatically. A safing sensor is designed to go on at a smaller deceleration rate than the airbag sensor. As illustrated in Fig. 2, ignition is caused when current flows to the squib, which happens when a safing sensor and the deceleration sensor go on simultaneously. When a deceleration force acts on the sensors, 2 squibs in the driver airbag and front passenger airbag ignite and generate gas. The gas discharging into the driver airbag and front passenger airbag rapidly increases the pressure inside the bags, breaking open the steering wheel pad and instrument panel. Bag inflation then ends, and the bags deflate as the gas is discharged through discharge holes at the bag's rear or side.

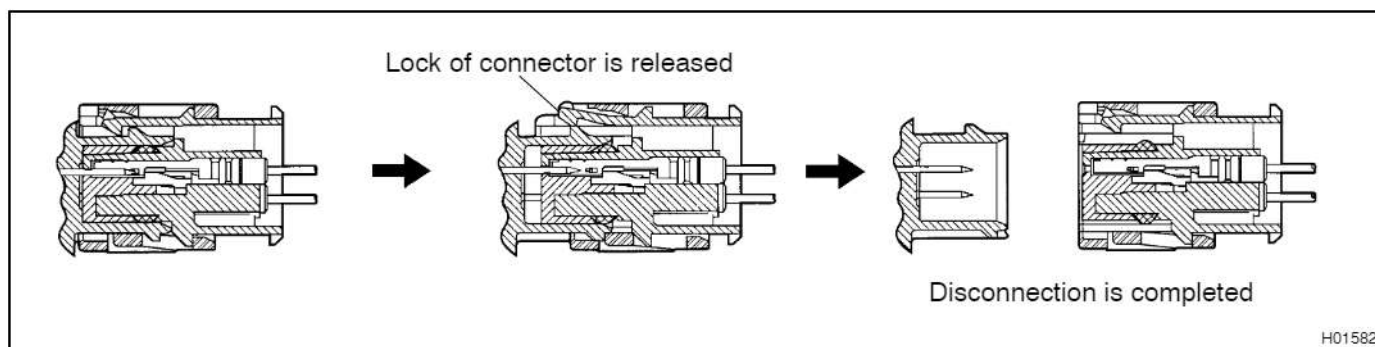


12. DISCONNECTION OF CONNECTORS FOR FRONT AIRBAG SENSOR, SIDE AIRBAG SENSOR AND DOOR SIDE AIRBAG SENSOR

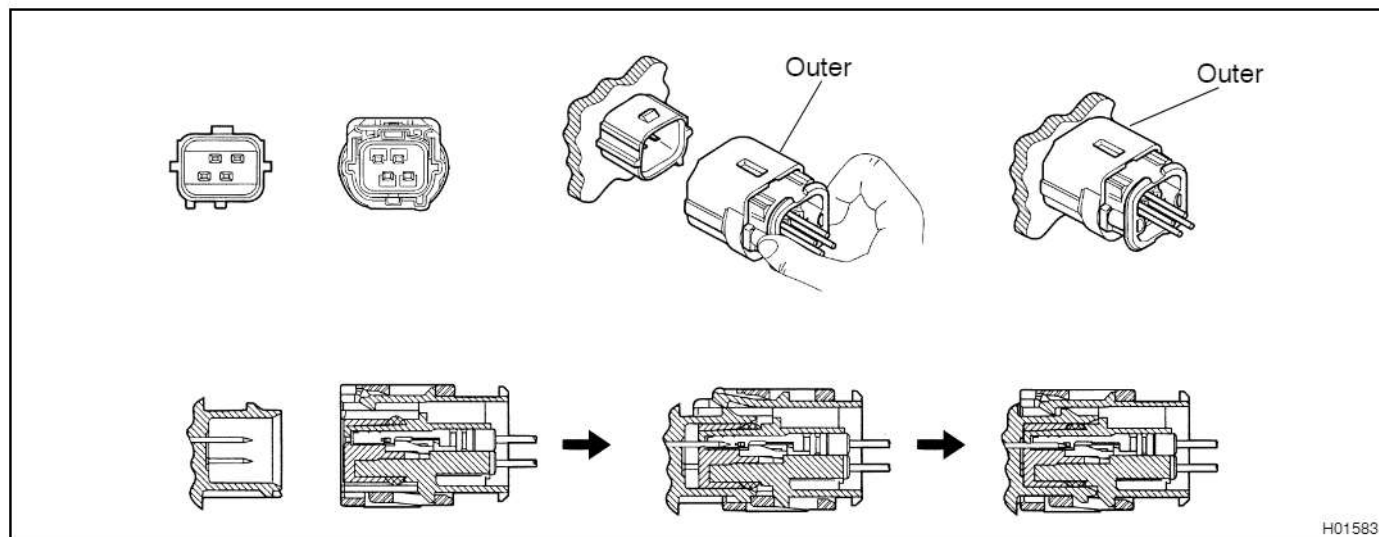
- (a) While holding both flank sides of the outer, slide the outer to the direction shown by an arrow.
- (b) Lock of the connectors is released, then disconnect the connectors.

HINT:

Be sure to hold both flank sides of the outer. If holding the top and bottom sides, it will obstruct disconnection.



13. CONNECTION OF CONNECTORS FOR FRONT AIRBAG SENSOR, SIDE AIRBAG SENSOR AND DOOR SIDE AIRBAG SENSOR



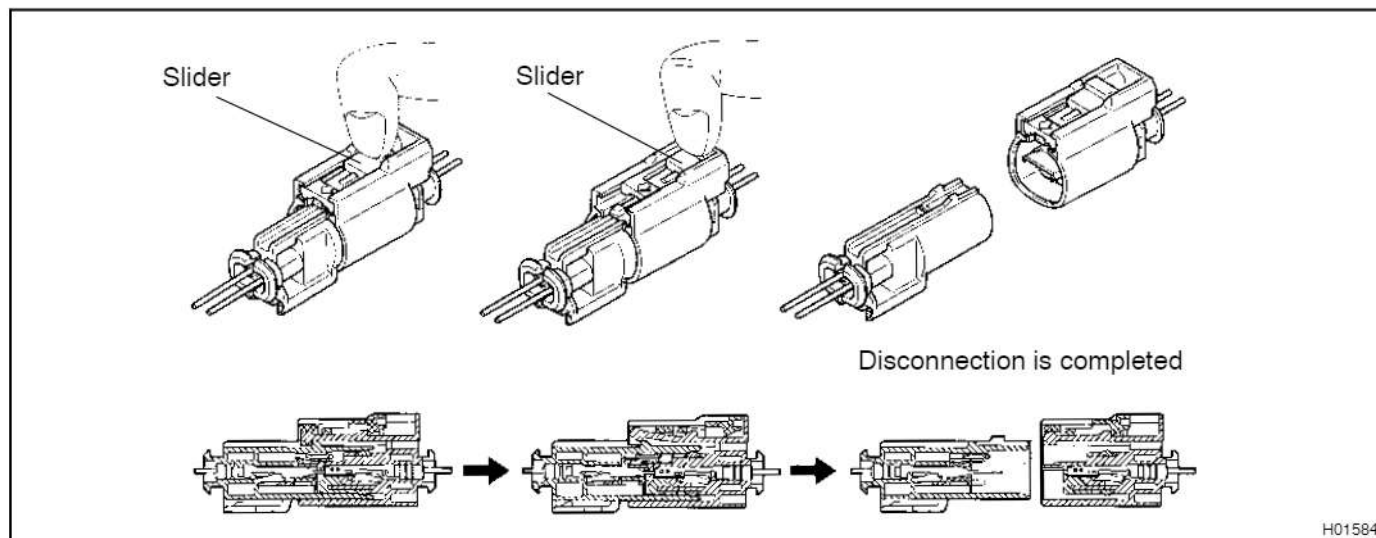
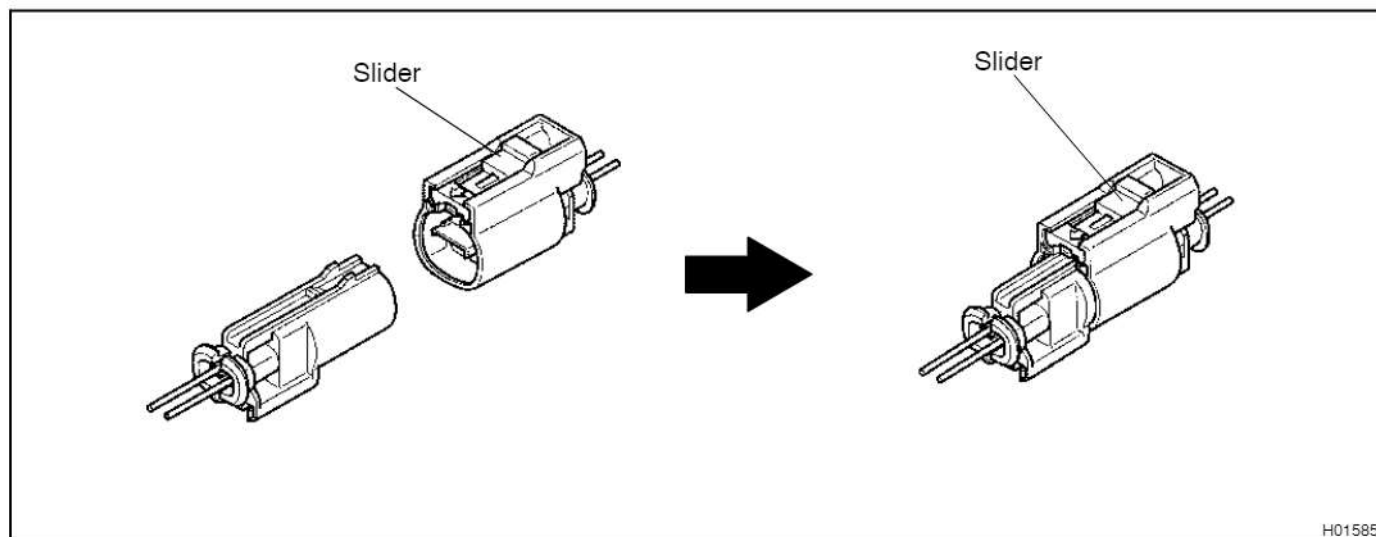
- (a) Align the male connector (of the side of sensor) and female connector in the same direction as shown in the illustration and fit in them without rubbing.
- (b) As they are fitted in, the outer slides rearward. Press it until the outer returns to its original position again.
If fitting stops half way, connectors will separate.
- (c) Be sure to insert until they are locked. After fitting in, pull them slightly to check that they are locked. (When locked, make sure that the outer returns to its original position and sound at the time of fitting in can be heard.)

HINT:

- Do not fit in while holding the outer.
- When fitting in, the outer slides. Do not touch it.

14. DISCONNECTION OF SIDE AIRBAG CONNECTOR

- (a) Place a finger on the slider.
- (b) Slide the slider to release lock.
- (c) Disconnect the connector.

**15. CONNECTION OF SIDE AIRBAG CONNECTOR**

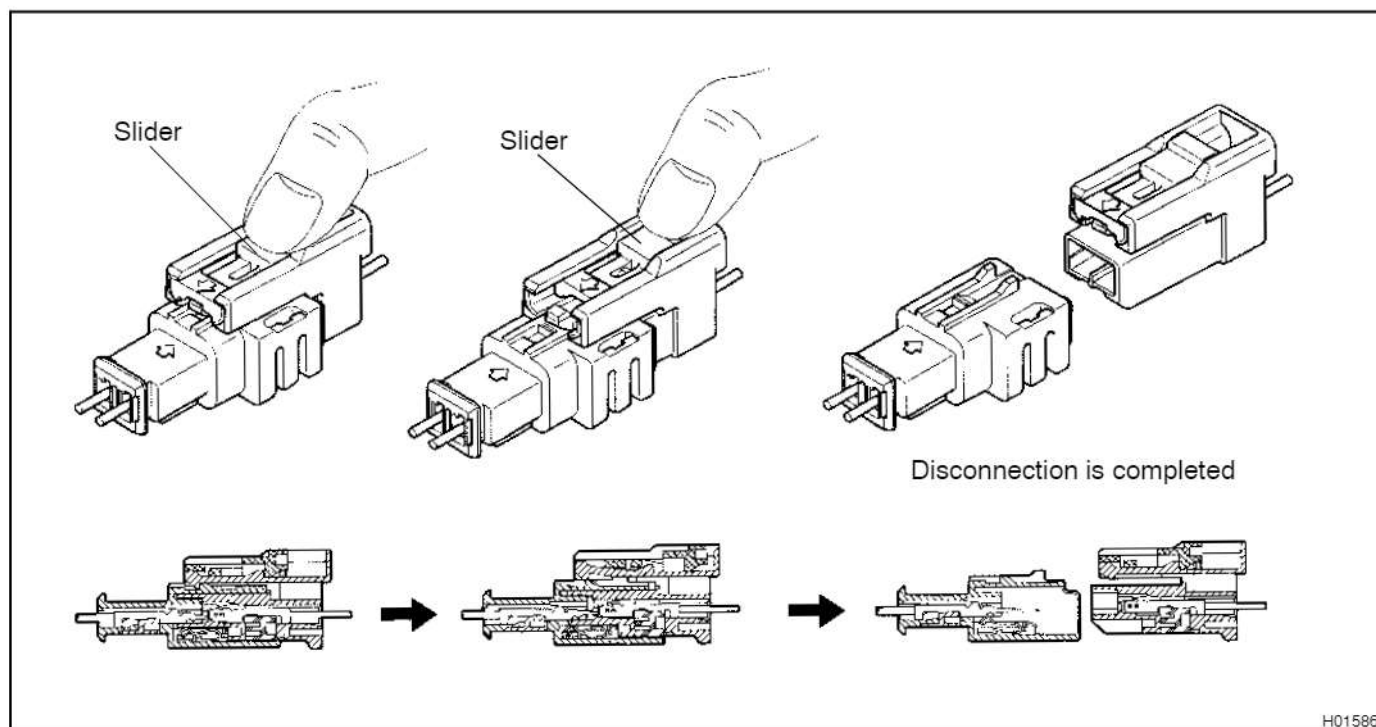
- (a) Align a lock part of male connector and a slider of female connector in the same direction as shown in the illustration, fit in them without rubbing.
- (b) Be sure to insert until they are locked. After fitting in pull them slightly to check that they are locked. (When locked, make sure that the outer returns to its original position and sound at the time of fitting in can be heard.)

HINT:

- As the slider slides, do not touch it.
- Be careful not to deform the release board. If the release board is deformed, replace it with a new one.

16. DISCONNECTION OF CONNECTORS FOR STEERING WHEEL PAD (with AIRBAG) AND FRONT PASSENGER AIRBAG ASSEMBLY

- (a) Place a finger on the slider.
- (b) Slide the slider to release lock.
- (c) Disconnect the connector.



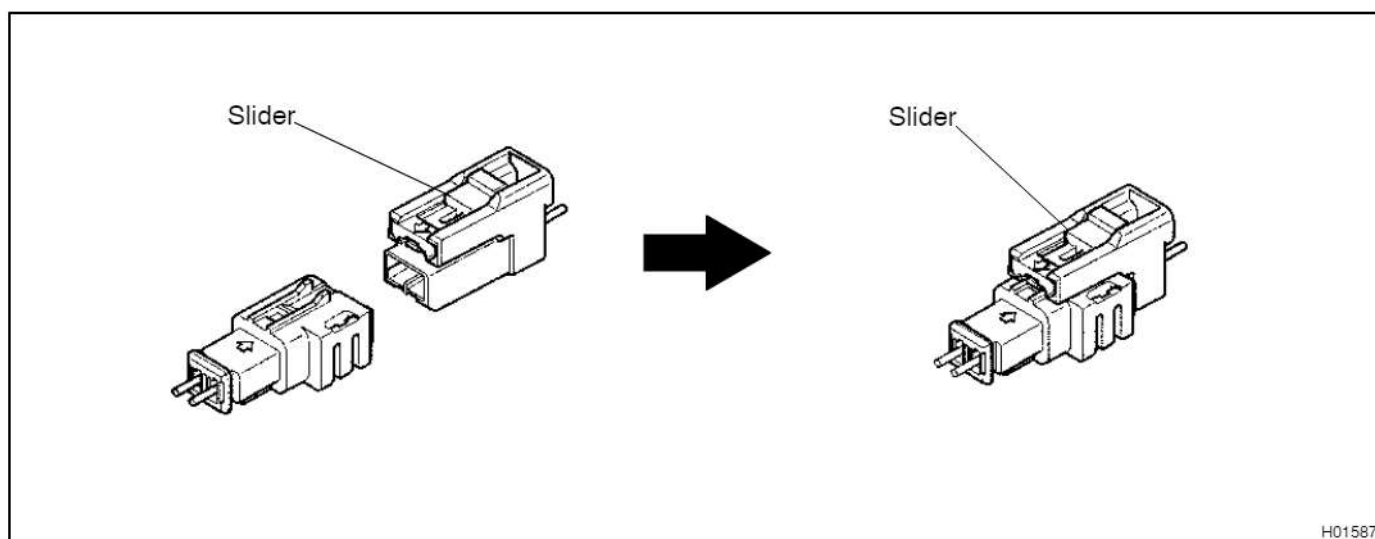
H01586

17. CONNECTION OF CONNECTORS FOR STEERING WHEEL PAD (with AIRBAG) AND FRONT PASSENGER AIRBAG ASSEMBLY

- (a) Align a lock part of male connector and a slider of female connector in the same direction as shown in the illustration, fit in them without rubbing.
- (b) Be sure to insert until they are locked. After fitting in pull them slightly to check that they are locked. (When locked, make sure that the outer returns to its original position and sound at the time of fitting in can be heard.)

HINT:

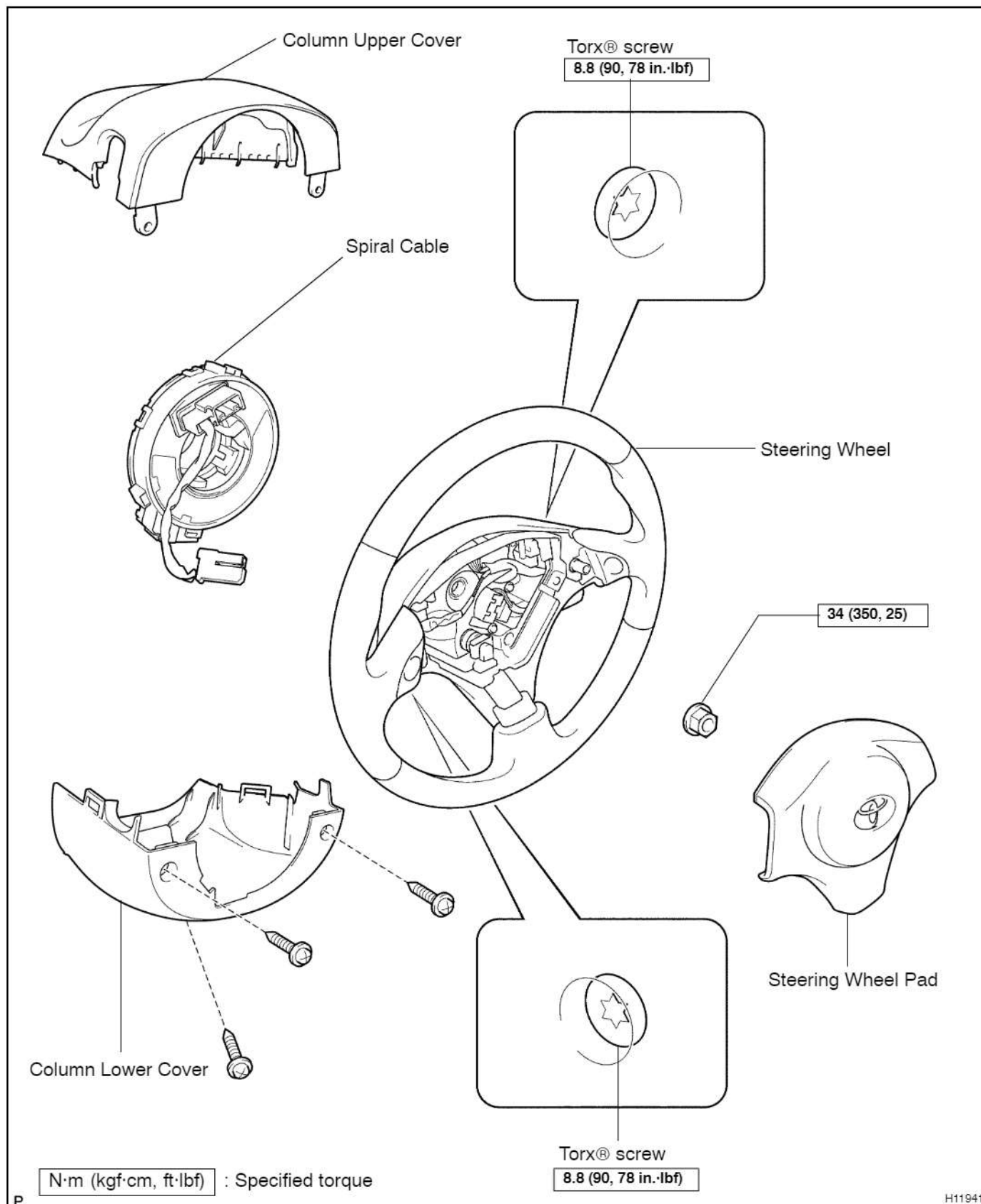
- As the slider slides, do not touch it.
- Be careful not to deform the release board. If the release board is deformed, replace it with a new one.



H01587

STEERING WHEEL PAD AND SPIRAL CABLE COMPONENTS

RS0JQ-14

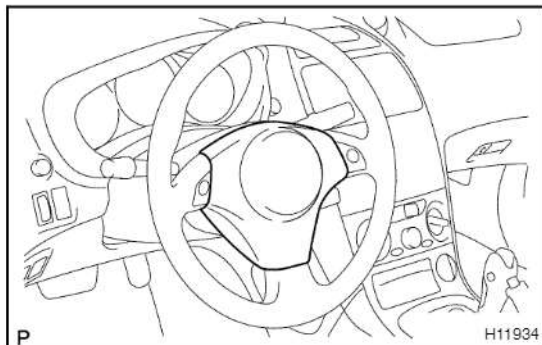


REMOVAL

HINT:

For step 1 to 4, refer to page SR-13.

1. REMOVE STEERING WHEEL PAD
2. REMOVE STEERING WHEEL
3. REMOVE UPPER AND LOWER COLUMN COVERS
4. REMOVE SPIRAL CABLE



INSPECTION

1. Vehicle not involved in collision:

INSPECT SUPPLEMENTAL RESTRAINT SYSTEM

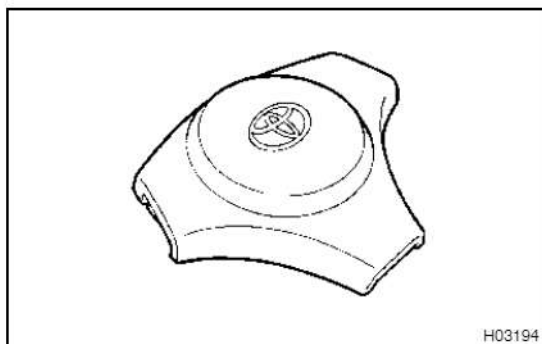
- (a) Do a diagnostic system check (See page DI-884).
- (b) Do a visual check which includes the following item with the steering wheel pad (with airbag) installed in the vehicle.

Check cuts, minute cracks or marked discoloration on the steering wheel pad top surface and in the grooved portion.

2. Vehicle involved in collision and airbag is not deployed:

INSPECT SUPPLEMENTAL RESTRAINT SYSTEM

- (a) Do a diagnostic system check (See page DI-884).



- (b) Do a visual check which includes the following items with the steering wheel pad (with airbag) removed from the vehicle.

- Check cuts, minute cracks or marked discoloration on the steering wheel pad top surface and in the grooved portion.
- Check cuts and cracks in wire harness, and chipping in connectors.

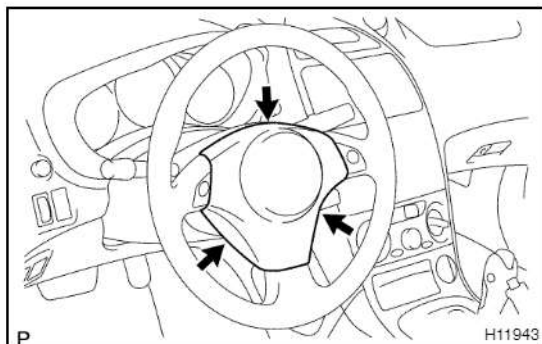
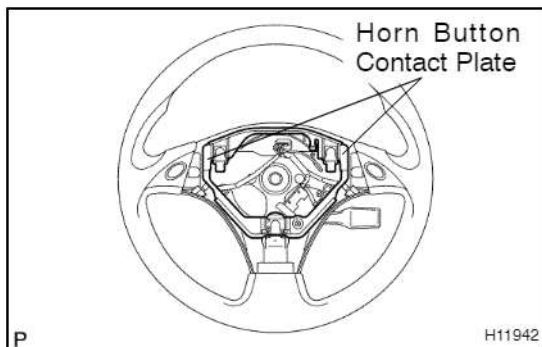
- Check the deformation of the horn button contact plate of the steering wheel.

CAUTION:

For removal and installation of the steering wheel pad, see page SR-13 and SR-21, be sure to follow the correct procedure.

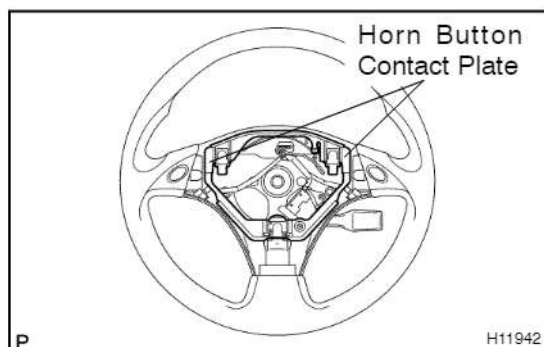
HINT:

- If the horn button contact plate of the steering wheel is deformed, never repair it. Always replace the steering wheel assembly with a new one.
- There should be no interference between the steering wheel pad and steering wheel, and the clearance should be uniform all the way around when the new steering wheel pad is installed on the steering wheel.



**3. Vehicle involved in collision and airbag is deployed:
INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**

- (a) Do a diagnostic system check (See page DI-884).



- (b) Do a visual check which includes the following items with the steering wheel pad (with airbag) removed from the vehicle.

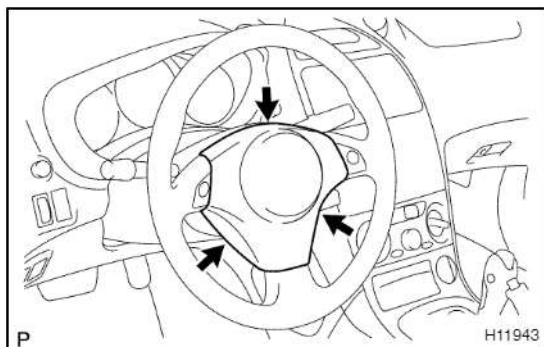
- Check the deformation on the horn button contact plate of the steering wheel.
- Check the damage on the spiral cable connector and wire harness.

CAUTION:

For removal and installation of the steering wheel pad, see page SR-13 and SR-21, and be sure to follow the correct procedure.

HINT:

- If the horn button contact plate of the steering wheel is deformed, never repair it. Always replace the steering wheel assembly with a new one.
- There should be no interference between the steering wheel pad and steering wheel, and the clearance should be uniform all the way around when the new steering wheel pad is installed on the steering wheel.



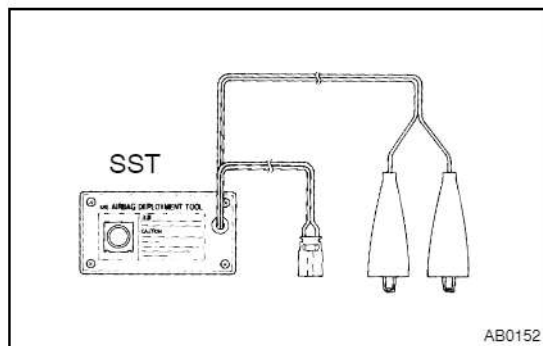
DISPOSAL

HINT:

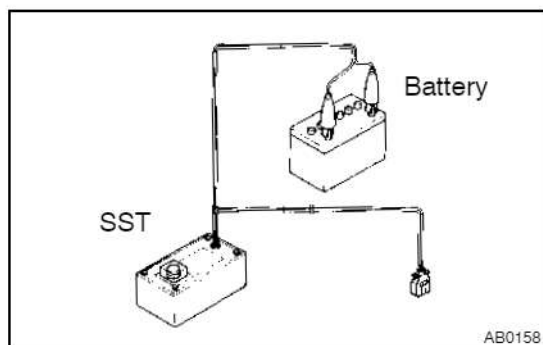
When scrapping vehicle equipped with an SRS or disposing of a steering wheel pad (with airbag), always first deploy the airbag in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

- **Never dispose of a steering wheel pad of which airbag has not deployed.**
- **The airbag produces a sizeable exploding sound when it deploys, so perform the operation out-of-doors and where it will not create a nuisance to nearby residents.**



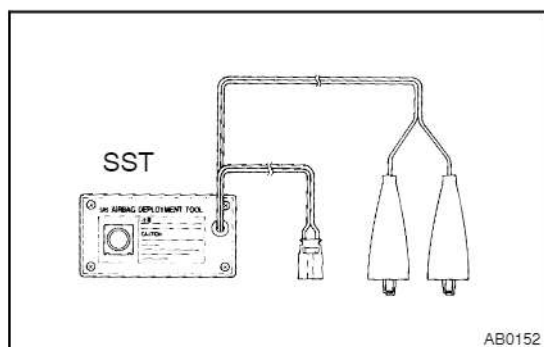
- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.**
SST 09082-00700
- **When deploying an airbag, perform the operation at least 10 m (33 ft) away from the steering wheel pad.**
- **The steering wheel pad is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a steering wheel pad with the deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water, etc. to a steering wheel pad with the deployed airbag.**



1. AIRBAG DEPLOYMENT WHEN SCRAPPING VEHICLE

HINT:

Have a battery ready as the power source to deploy the airbag.

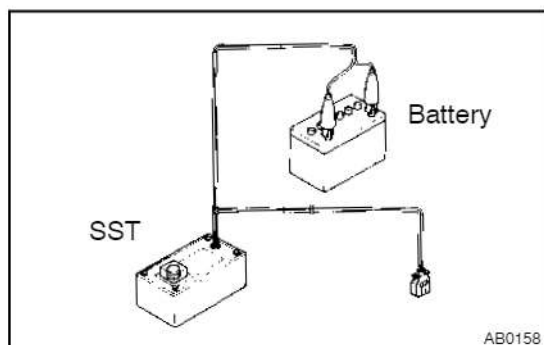


(a) Check functioning of the SST.

CAUTION:

When deploying the airbag, always use the specified SST: SRS Airbag Deployment Tool.

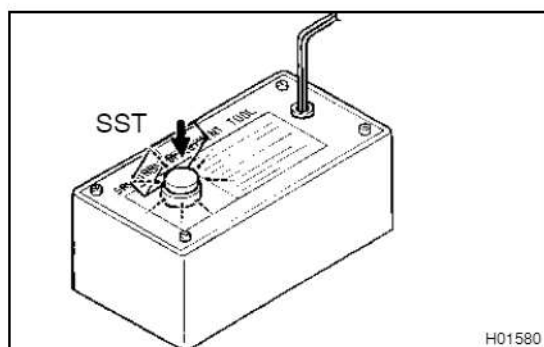
SST 09082-00700



- (1) Connect the red clip of the SST to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.

HINT:

Do not connect the yellow connector which will be connected with the supplemental restraint system.

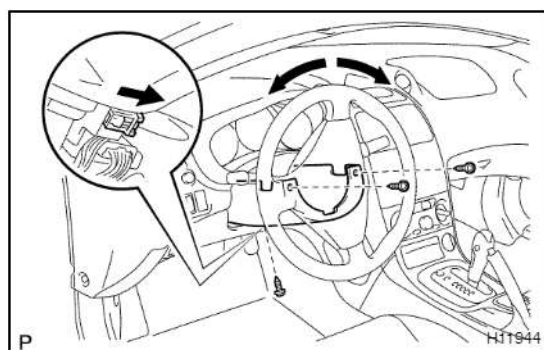


- (2) Press the SST activation switch, and check that the LED of the SST activation switch lights up.

CAUTION:

If the LED lights up when the activation switch is not being pressed, SST malfunction is probable, so definitely do not use the SST.

- (3) Disconnect the SST from the battery.

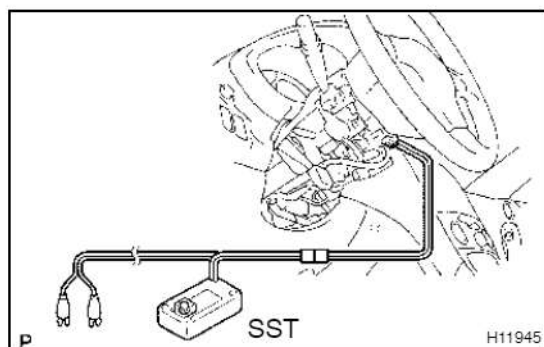


(b) Install the SST.

CAUTION:

Check that there is no looseness in the steering wheel and steering wheel pad.

- (1) While turning the steering wheel right / left, remove the 3 screws and column lower cover.
- (2) Disconnect the airbag connector of the spiral cable.

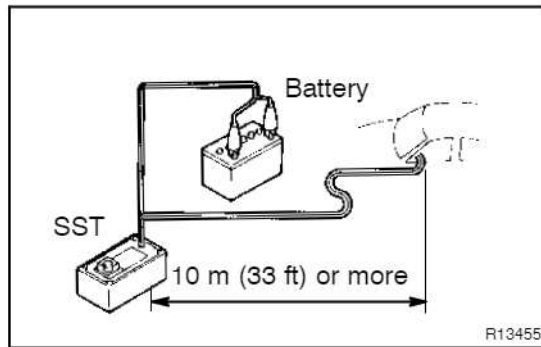


- (3) Connect the connectors of the 2 SST to the airbag connector of the spiral cable.

SST 09082-00700, 09082-00760

NOTICE:

To avoid damaging the connector of the SST and wire harness, do not lock the secondary lock of the twin lock.

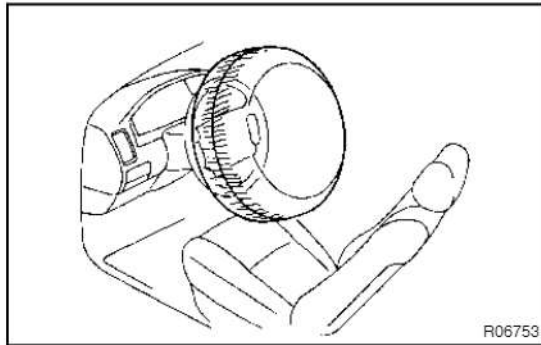


- (4) Move the SST at least 10 m (33 ft) away from the front of the vehicle.
- (5) Close all the doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

- (6) Connect the SST red clip to the battery positive (+) terminal and the black clip to the negative (-) terminal.



- (c) Deploy the airbag.
 - (1) Check that no one is inside the vehicle or within 10 m (33 ft) area around the vehicle.
 - (2) Press the SST activation switch and deploy the airbag.

CAUTION:

- The steering wheel pad is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a steering wheel pad with the deployed airbag.
- Always wash your hands with water after completing the operation.
- Do not apply water, etc. to a steering wheel pad with the deployed airbag.
- When scrapping a vehicle, deploy the airbag and scrap the vehicle with the steering wheel pad still installed.
- When moving a vehicle for scrapping which has a steering wheel pad with deployed airbag, use gloves and safety glasses.

HINT:

The airbag deploys simultaneously as the LED of the SST activation switch lights up.

2. DEPLOYMENT WHEN DISPOSING OF STEERING WHEEL PAD ONLY

NOTICE:

- When disposing of the steering wheel pad (with airbag) only, never use the customers vehicle to deploy the airbag.
- Be sure to follow the procedure given below when deploying the airbag.

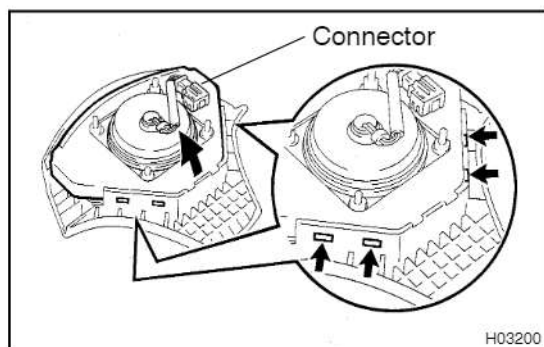
HINT:

Have a battery ready as the power source to deploy the airbag.

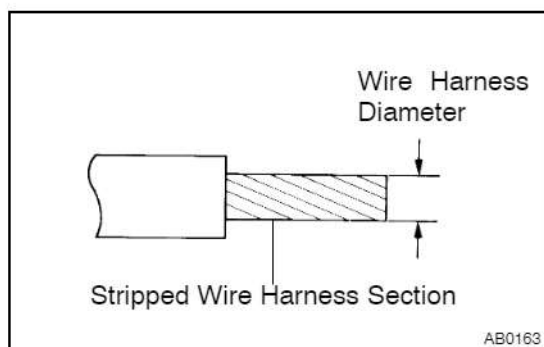
- (a) Remove the steering wheel pad (See page SR-13).

CAUTION:

- When removing the steering wheel pad, work must be started 90 seconds after the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.
- When storing the steering wheel pad, keep the upper surface of the pad facing upward.



- (b) Remove the connector on the steering wheel pad rear surface.
- (c) Remove the steering wheel pad cover.



- (d) Using a service-purpose wire harness tie down the steering wheel pad to the disc wheel.

Wire harness: Stripped wire harness section
1.25 mm² or more (0.0019 in². or more)

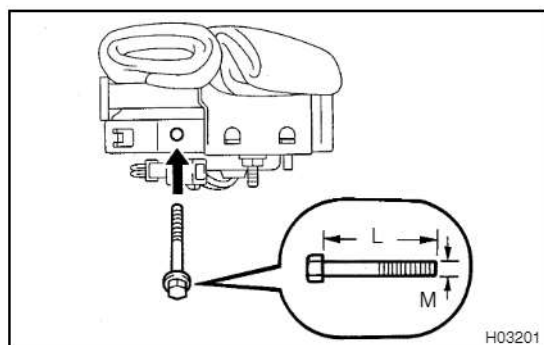
CAUTION:

If a wire harness which is too thin or some other thing is used to tie down the steering wheel pad, it may be snapped by the shock when the airbag is deployed. This is highly dangerous. Always use a wire harness for vehicle use which is at least 1.25 mm² (0.0019 in².).

HINT:

To calculate the square of the stripped wire harness section:

$$\text{Square} = 3.14 \times (\text{Diameter})^2 \text{ divided by } 4$$



- (1) Install the 2 bolts with washers in the 2 bolt holes in the steering wheel pad.

Bolt:

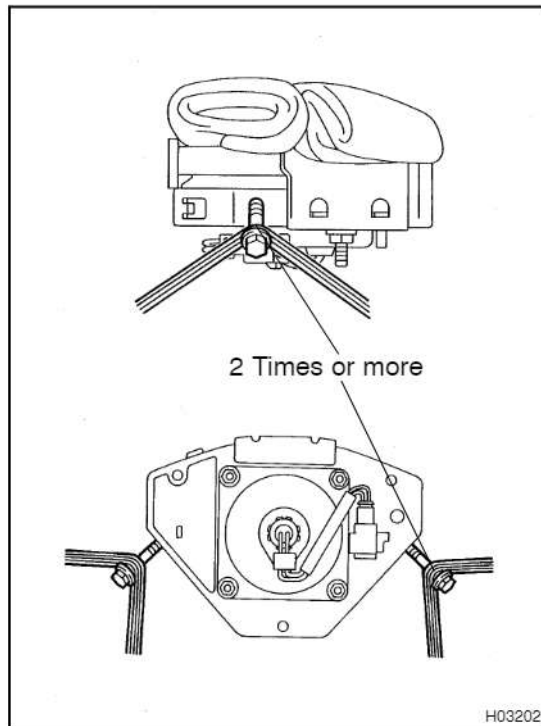
L: 35. mm (1.387 in.)

M: 6.0 mm (0.236 in.)

Pitch: 1.0 mm (0.039 in.)

NOTICE:

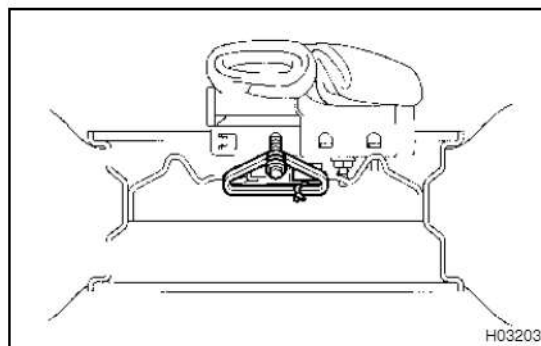
- Tighten the bolts by hand until the bolts become difficult to turn.
- Do not tighten the bolts too much.



- (2) Using 3 wire harnesses, wind the wire harness at least 2 times each around the bolts installed on the left and right sides of the steering wheel pad.

CAUTION:

- **Tightly wind the wire harness around the bolts so that there is no slack.**
- **If there is slackness in the wire harness, the steering wheel pad may come loose due to the shock when the airbag is deployed. This is highly dangerous.**



- (3) Face the upper surface of the steering wheel pad upward. Separately tie the left and right sides of the steering wheel pad to the disc wheel through the hub nut holes. Position the steering wheel pad connector so that it hangs downward through a hub hole in the disc wheel.

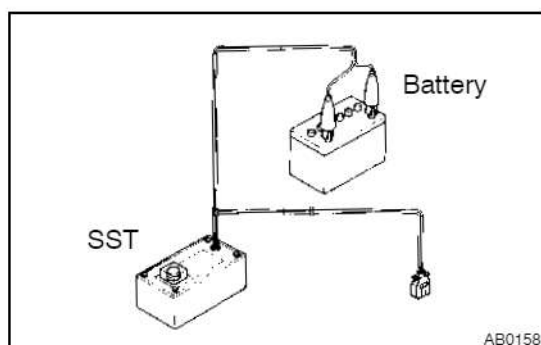
CAUTION:

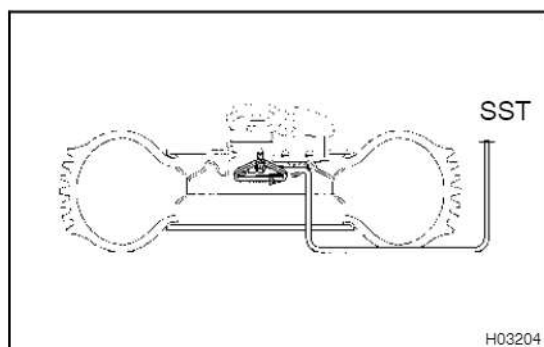
- **Make sure that the wire harness is tight. It is very dangerous when looseness in the wire harness results in the steering wheel pad coming free due to the shock from the airbag deploying.**
- **Always tie down the steering wheel pad with the pad side facing upward. It is very dangerous if the steering wheel pad is tied down with the metal surface facing upward as the wire harness will be cut by the shock from the airbag deploying and the steering wheel pad will be thrown into the air.**

NOTICE:

The disc wheel will be marked by airbag deployment, so when disposing of the airbag use a redundant disc wheel.

- (e) Check functioning of the SST (See step 1-(a)).
SST 09082-00700





(f) Install the SST.

CAUTION:

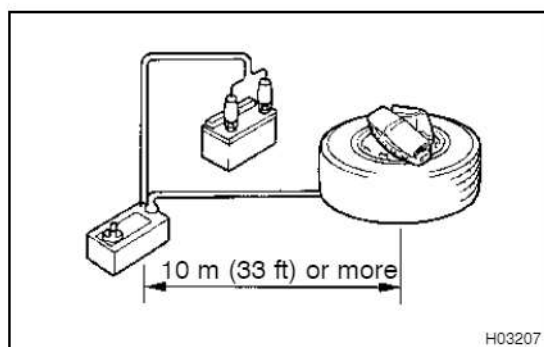
Place the disc wheel on the level ground.

- (1) Connect the connectors of the 2 SST to the steering wheel pad connector.

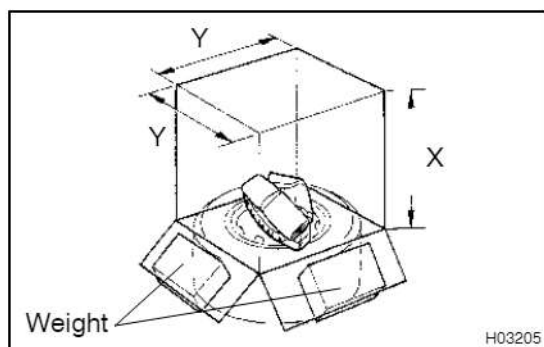
SST 09082-00700, 09082-00760

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the disc wheel.



- (2) Move the SST to at least 10 m (33 ft) away from the steering wheel pad tied down on the disc wheel.



- (g) Cover the steering wheel pad with a cardboard box or tires.

- Covering method using a cardboard box:
Cover the steering wheel pad with the cardboard box and weight the cardboard box down in 4 places with at least 190 N (20 kg, 44 lb).

Size of cardboard box:

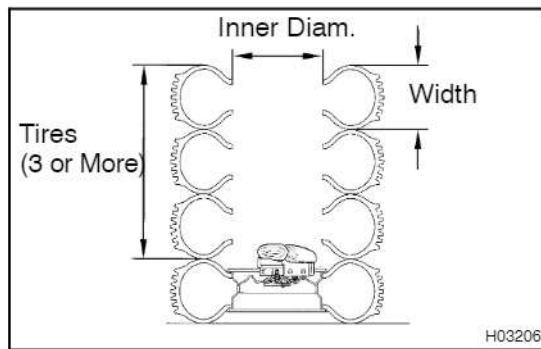
Must exceed the following dimensions:

X = 460 mm (18.11 in.)

Y = 650 mm (25.59 in.)

NOTICE:

- When dimension Y of the cardboard box exceeds the diameter of the disc wheel with tire to which the steering wheel pad is tied, X should be the following size.
X = 460 mm (18.11 in.) + width of tire
- If a cardboard box smaller than the specified size is used, the cardboard box will be broken by the shock from the airbag deployment.



- Covering method using tires:
Place at least 3 tires without disc wheel on top of the disc wheel with tire to which the steering wheel pad is tied.

Tire size: Must exceed the following dimensions–

Width: 185 mm (7.87 in.)

Inner diameter: 360 mm (14.17 in.)

CAUTION:

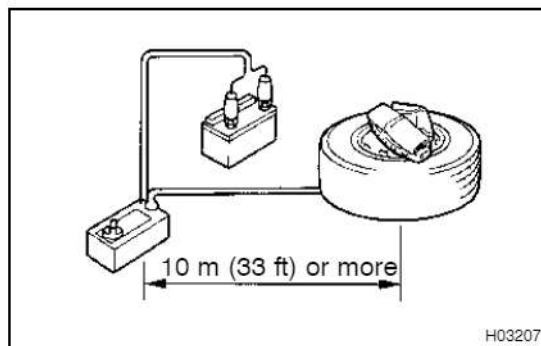
Do not use tires with disc wheels.

NOTICE:

The tires may be marked by the airbag deployment, so use the redundant tires.

(h) Deploy the airbag.

- (1) Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (–) terminal.



- (2) Check that no one is within 10 m (33 ft) area around the disc wheel which the steering wheel pad is tied to.
- (3) Press the SST activation switch and deploy the airbag.

HINT:

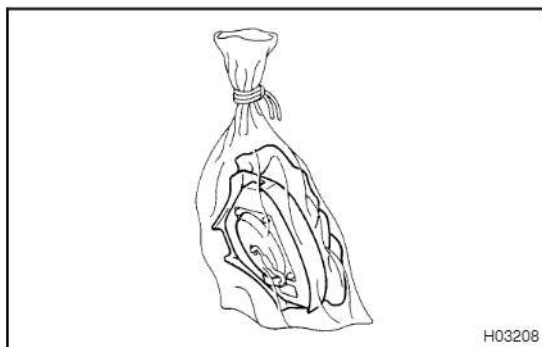
The airbag deploys simultaneously as the LED of the SST activation switch lights up.



(i) Dispose of the steering wheel pad (with airbag).

CAUTION:

- The steering wheel pad is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.
 - Use gloves and safety glasses when handling a steering wheel pad with the deployed airbag.
 - Always wash your hands with water after completing the operation.
 - Do not apply water, etc. to a steering wheel pad with the deployed airbag.
- (1) Remove the steering wheel pad from the disc wheel.
 - (2) Place the steering wheel pad in a vinyl bag, tie the end tightly and dispose of it in the same way as other general parts disposal.



3. DEPLOYMENT WHEN DISPOSING OF STEERING WHEEL PAD WITH AIRBAG DEPLOYED IN COLLISION

Dispose of the steering wheel pad (with airbag).

CAUTION:

- The steering wheel pad is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.
 - When moving a vehicle for scrapping which has a steering wheel pad with the deployed airbag, use gloves and safety glasses.
 - Use gloves and safety glasses when handling a steering wheel pad with deployed airbag.
 - Always wash your hands with water after completing the operation.
 - Do not apply water, etc. to a steering wheel pad with deployed airbag.
- (1) Remove the steering wheel pad from the steering wheel (See page SR-13).
 - (2) Place the steering wheel pad in a vinyl bag, tie the end tightly and dispose of it in the same way as other general parts disposal.

REPLACEMENT

REPLACEMENT REQUIREMENTS

In the following cases, replace the steering wheel pad, steering wheel or spiral cable.

Case	Replacing part
If the airbag has been deployed.	Steering wheel pad
If the steering wheel pad has been found to be faulty in troubleshooting.	Steering wheel pad
If the spiral cable has been found to be faulty in troubleshooting.	Spiral cable
If the steering wheel pad has been found to be faulty during checking items (See page RS-14).	Steering wheel pad
If the steering wheel has been found to be faulty during checking items (See page RS-14).	Steering wheel
If the spiral cable has been found to be faulty during checking items (See page RS-14).	Spiral cable
If the steering wheel pad has been dropped.	Steering wheel pad

CAUTION:

For removal and installation of the steering wheel pad, see page SR-13 and SR-21. Be sure to follow the correct procedure.

INSTALLATION

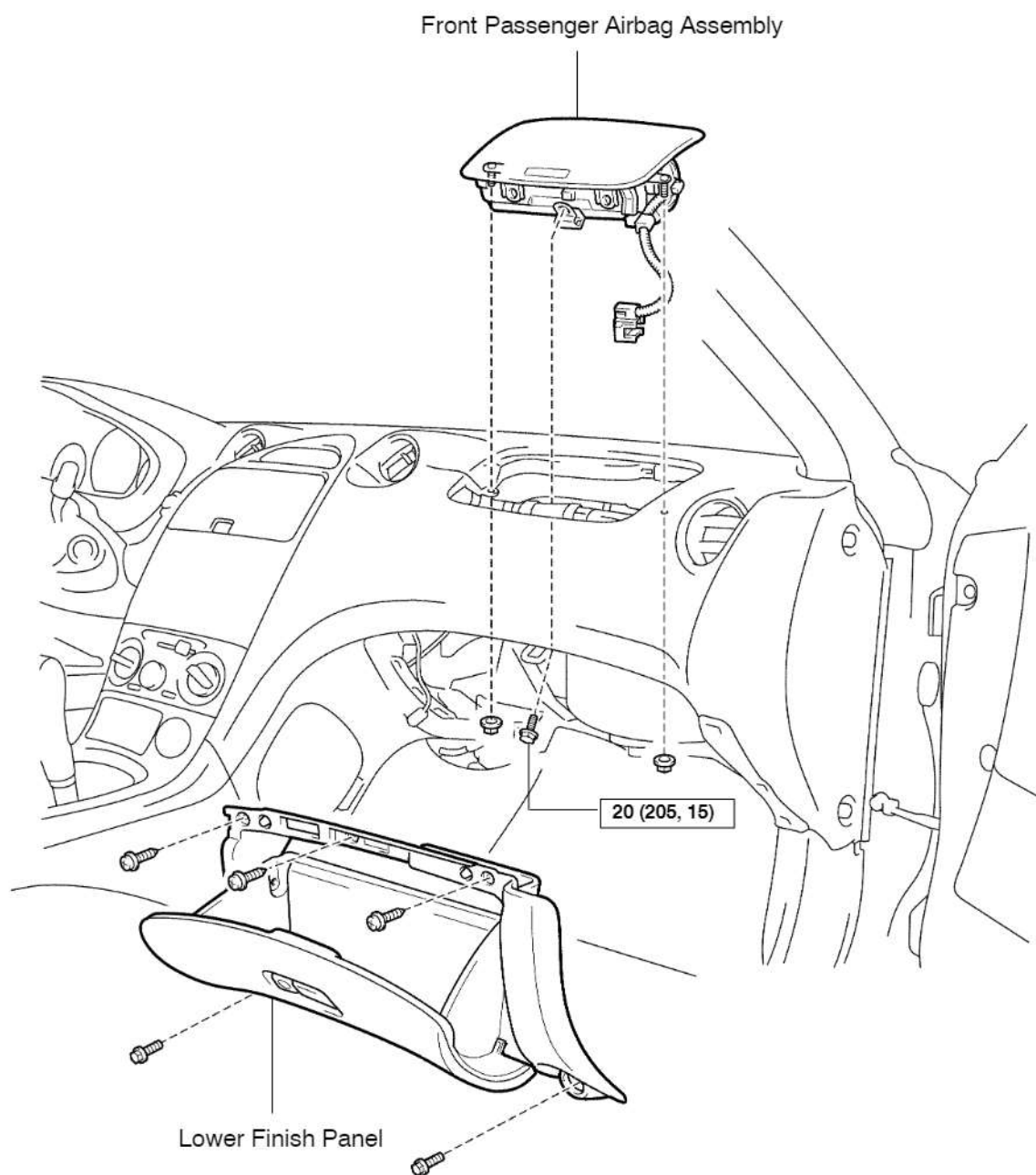
HINT:

For step 1 to 4, refer to page SR-21.

1. **INSTALL SPIRAL CABLE**
2. **INSTALL UPPER AND LOWER COLUMN COVERS**
3. **INSTALL STEERING WHEEL**
4. **INSTALL STEERING WHEEL PAD**

FRONT PASSENGER AIRBAG ASSEMBLY COMPONENTS

RS0JW-10



N·m (kgf·cm, ft·lbf) : Specified torque

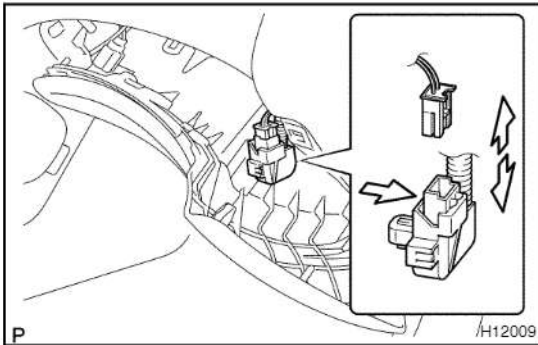
P

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REMOVAL

NOTICE:

- If the wiring connector of the SRS is disconnected and the ignition switch is in ON position, DTCs will be recorded.
- Never use the airbag parts from another vehicle. When replacing parts, replace them with new parts.



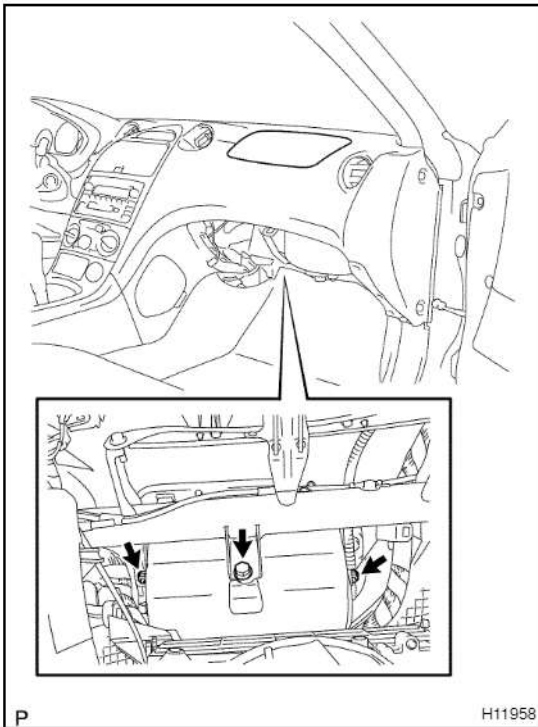
1. DISCONNECT AIRBAG CONNECTOR

- Remove the 3 screws, 2 bolts and lower finish panel.
- Remove the connector cover from the lower finish panel.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

- Disconnect the airbag connector.



2. REMOVE FRONT PASSENGER AIRBAG ASSEMBLY

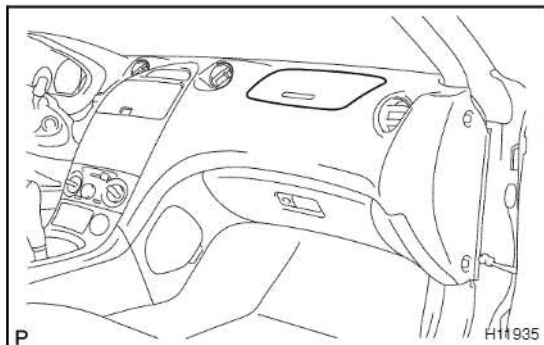
Remove the bolt and 2 nuts.

CAUTION:

- Do not store the front passenger airbag assembly with the airbag deployment side facing downward.
- Never disassemble the front passenger airbag assembly.

NOTICE:

When removing the front passenger airbag assembly, take care not to damage the wire harness.



INSPECTION

1. Vehicles not involved in collision:

INSPECT SUPPLEMENTAL RESTRAINT SYSTEM

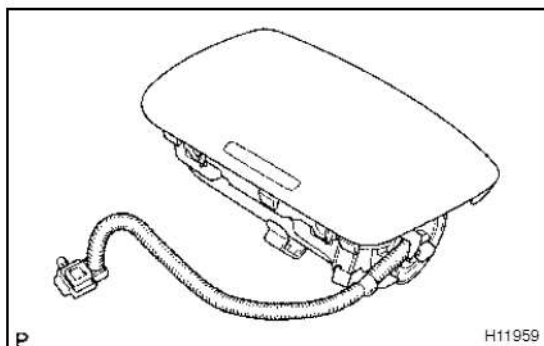
- (a) Do a diagnostic system check (See page DI-884).
- (b) Do a visual check which includes the following item with the front passenger airbag assembly installed in the vehicle.

Check cuts, minute cracks or marked discoloration on the front passenger airbag assembly and instrument panel.

2. Vehicle involved in a collision and airbag is not deployed:

INSPECT SUPPLEMENTAL RESTRAINT SYSTEM

- (a) Do a diagnostic system check (See page DI-884).



- (b) Do a visual check which includes the following items with the front passenger airbag assembly removed from the vehicle.

- Check cuts, minute cracks or marked discoloration on the front passenger airbag assembly.
- Check cuts and cracks in wire harness, and for chipping in connectors.

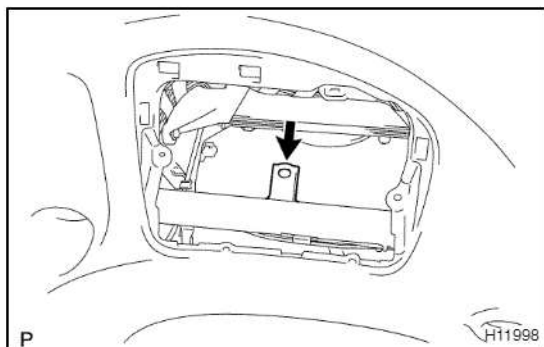
- Check the deformation or cracks on the instrument panel and instrument panel reinforcement.

CAUTION:

For removal and installation of the front passenger airbag assembly, see page RS-27 and RS-38, and be sure to follow the correct procedure.

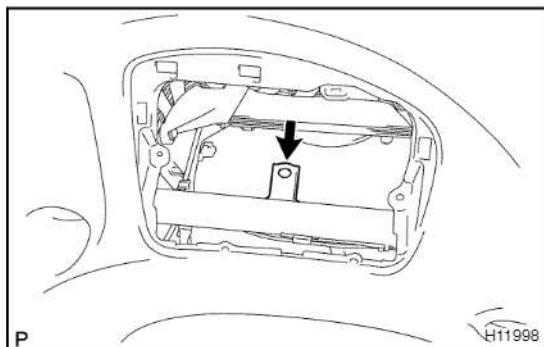
HINT:

If the instrument panel or instrument panel reinforcement is deformed or cracked, never repair it. Always replace it with a new one.



**3. Vehicle involved in a collision and airbag is deployed:
INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**

(a) Do a diagnostic system check (See page DI-884).



(b) Do a visual check which includes the following items with the front passenger airbag assembly removed from the vehicle.

- Check the deformation or cracks on the instrument panel and instrument panel reinforcement.
- Check the damage on the connector and wire harness.

CAUTION:

For removal and installation of the front passenger airbag assembly, see page SR-13 and SR-21, and be sure to follow the correct procedure.

HINT:

If the instrument panel or instrument panel reinforcement is deformed or cracked, never repair it. Always replace it with a new one.

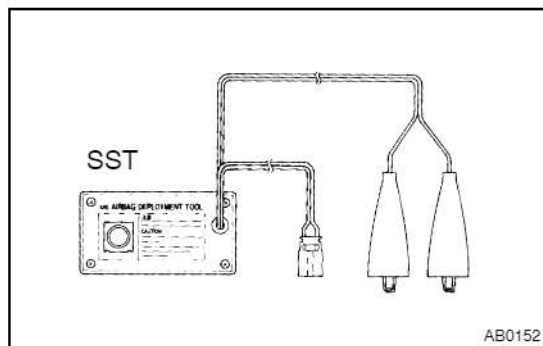
DISPOSAL

HINT:

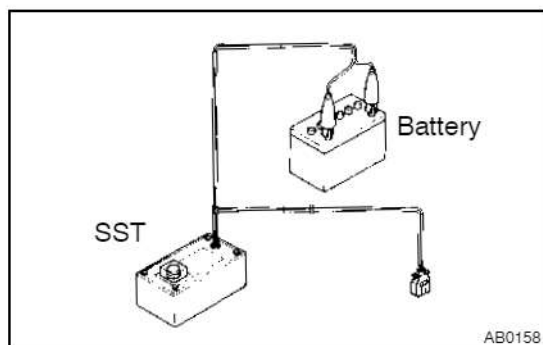
When scrapping vehicle equipped with an SRS or disposing of a front passenger airbag assembly, always first deploy the airbag in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

- **Never dispose of a front passenger airbag assembly which has an undeployed airbag.**
- **The airbag produces a sizeable exploding sound when it deploys, so perform the operation out-of-doors and where it will not create a nuisance to nearby residents.**



- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.**
SST 09082-00700
- **When deploying an airbag, perform the operation at least 10 m (33 ft) away from the front passenger airbag assembly.**
- **The front passenger airbag assembly is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a front passenger airbag assembly with the deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water, etc. to a front passenger airbag assembly with the deployed airbag.**



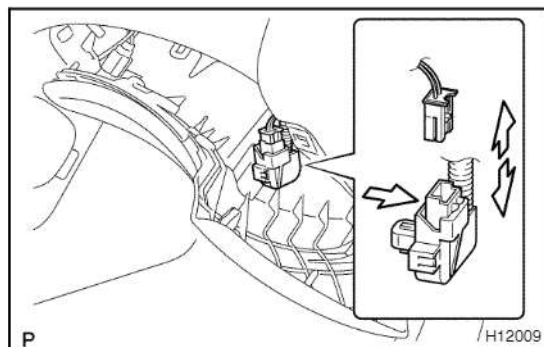
1. AIRBAG DEPLOYMENT WHEN SCRAPPING VEHICLE

HINT:

Have a battery ready as the power source to deploy the airbag.

- (a) Check functioning of the SST (See step 1-(a) on page RS-16).

SST 09082-00700



- (b) Disconnect the airbag connector.
- (1) Using a screwdriver, pry out the glove compartment door finish plate inside the lower panel.

HINT:

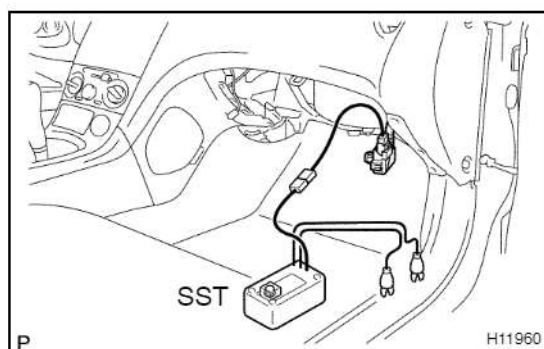
Tape the screwdriver tip before use.

- (2) Remove the connector from the glove compartment door finish plate.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

- (3) Disconnect the airbag connector.

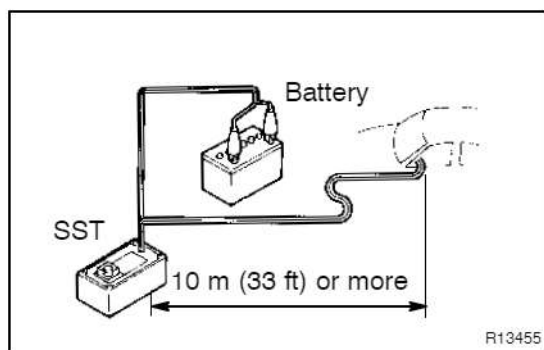


- (c) Install the SST.
- (1) Connect the connectors of the 2 SST to the front passenger airbag assembly connector.

SST 09082-00700, 09082-00760

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.

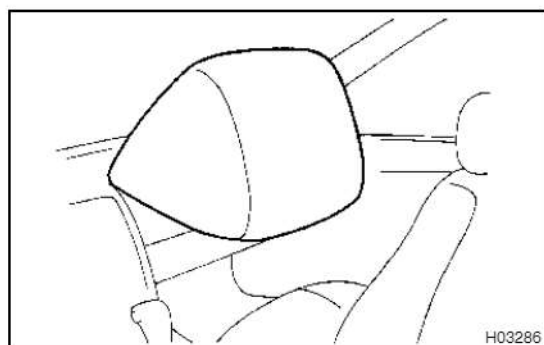


- (2) Move the SST to at least 10 m (33 ft) away from the front of the vehicle.
- (3) Close all the doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

- (4) Connect the SST red clip to the battery positive (+) terminal and the black clip to the negative (-) terminal.



- (d) Deploy the airbag.
- (1) Check that no one is inside the vehicle or within 10 m (33 ft) area around the vehicle.
 - (2) Press the SST activation switch and deploy the airbag.

CAUTION:

- The front passenger airbag assembly is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling the front passenger airbag assembly with the deployed airbag.
- Always wash your hands with water after completing the operation.
- Do not apply water, etc. to the front passenger airbag assembly with the deployed airbag.
- When scrapping a vehicle, deploy the airbag and scrap the vehicle with the front passenger airbag assembly still installed.
- When moving a vehicle for scrapping which has the front passenger airbag assembly with the deployed airbag, use gloves and safety glasses.

HINT:

The airbag deploys simultaneously as the LED of the SST activation switch lights up.

2. DEPLOYMENT WHEN DISPOSING OF FRONT PASSENGER AIRBAG ASSEMBLY ONLY**NOTICE:**

- When disposing of the front passenger airbag assembly only, never use the customer's vehicle to deploy the airbag.
- Be sure to follow the procedure given below when deploying the airbag.

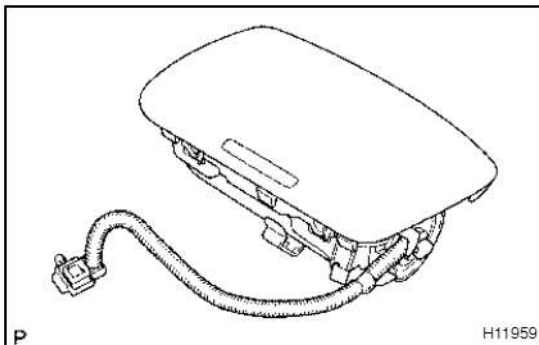
HINT:

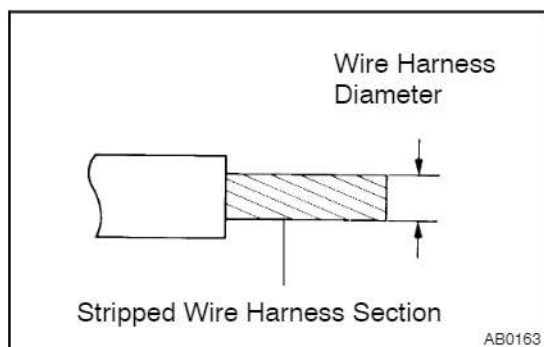
Have a battery ready as the power source to deploy the airbag.

- (a) Remove the front passenger airbag assembly (See page RS-27).

CAUTION:

- When removing the front passenger airbag assembly, work must be started 90 seconds after the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.
- When storing the front passenger airbag assembly, keep the upper surface of the airbag deployment side facing upward.





- (b) Using a service-purpose wire harness, tie down the front passenger airbag assembly to the tire.

Wire harness: Stripped wire harness section
1.25 mm² or more (0.0019 in.² or more)

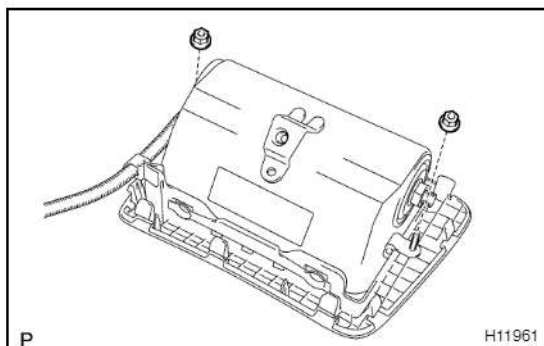
CAUTION:

If the front passenger airbag assembly is tied down with too thin wire harness, it may snap. This is highly dangerous. Always use a wire harness which is at least 1.25 mm² (0.0019 in.²).

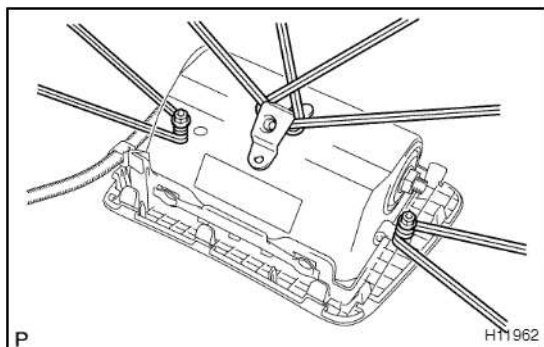
HINT:

To calculate the square of the stripped wire harness section:

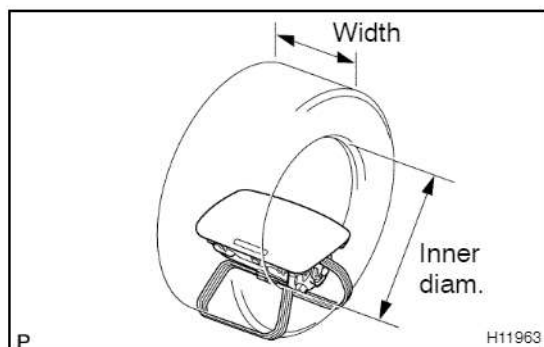
$$\text{Square} = 3.14 \times (\text{Diameter})^2 \text{ divided by } 4$$



- (1) Install the 2 nuts on the front passenger airbag assembly.



- (2) Wind the wire harness around the bolts, and pass the wire harness through the installation holes.



- (3) Position the front passenger airbag assembly inside the tire with the airbag deployment side facing inside.

Tire size: Must exceed the following dimensions-

Width: 185 mm (7.28 in.)

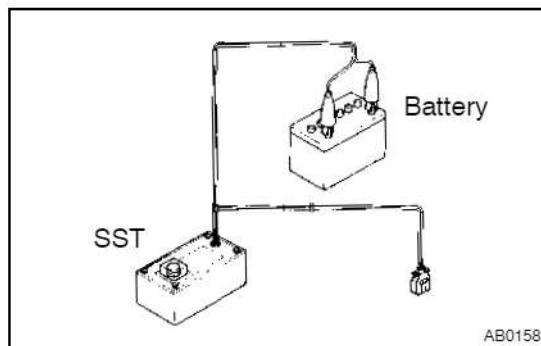
Inner diameter: 360 mm (14.17 in.)

CAUTION:

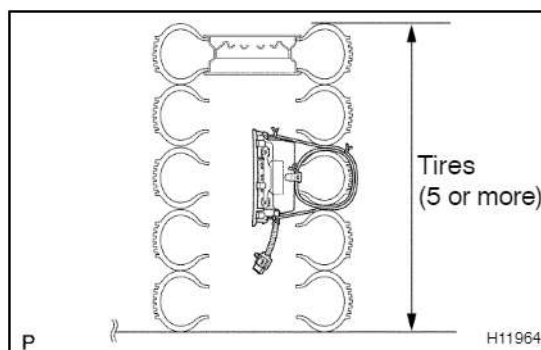
- Make sure that the wire harness is tight. It is very dangerous if looseness in the wire harness results in the front passenger airbag assembly coming free due to the shock from the airbag deploying.
- Always tie down the front passenger airbag assembly with the airbag deployment side facing inside.

NOTICE:

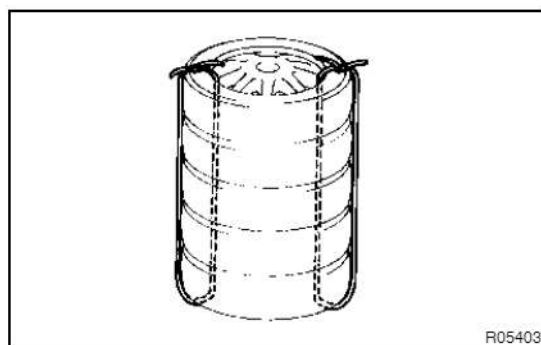
The tire will be marked by the airbag deployment, so when disposing of the airbag use a redundant tire.



- (c) Check functioning of the SST (See step 1-(a) on page RS-16).
SST 09082-00700



- (d) Place the tires.
- (1) Place at least 2 tires under the tire to which the front passenger airbag assembly is tied.
 - (2) Place at least 2 tires over the tire to which the front passenger airbag assembly is tied. The top tire should have the wheel installed.



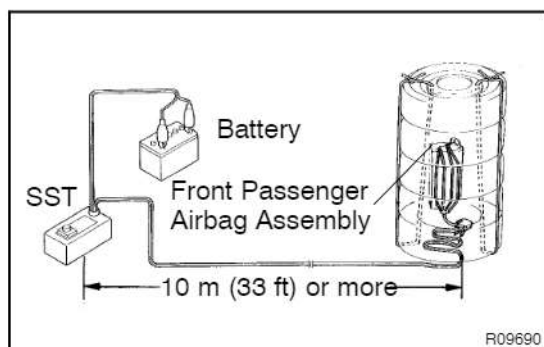
- (3) Tie the tires together with 2 wire harnesses.

CAUTION:

Make sure that the wire harnesses are tight. It is very dangerous if loose wire harnesses result in the tires coming free due to the shock from the airbag deploying.

HINT:

Place the SST connector and wire harnesses inside tires. Provide at least 1 m (3 ft) of slack for the wire harness.



(e) Install the SST.

Connect the connectors of the 2 SST to the front passenger airbag assembly connector.

SST 09082-00700, 09082-00760

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tires.

(f) Deploy the airbag.

- (1) Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.
- (2) Check that no one is within 10 m (33 ft) area around the tire which the front passenger airbag assembly is tied to.
- (3) Press the SST activation switch and deploy the airbag.

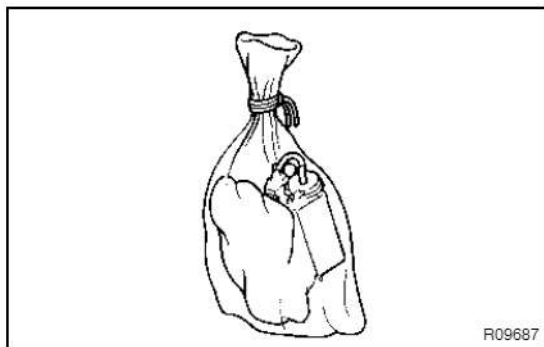
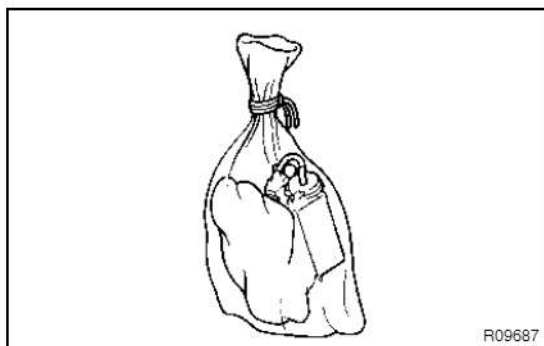
HINT:

The airbag deploys simultaneously as the LED of the SST activation switch lights up.

(g) Dispose of the front passenger airbag assembly.

CAUTION:

- **The front passenger airbag assembly is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.**
 - **Use gloves and safety glasses when handling a front passenger airbag assembly with the deployed airbag.**
 - **Always wash your hands with water after completing the operation.**
 - **Do not apply water, etc. to a front passenger airbag assembly with the deployed airbag.**
- (1) Remove the front passenger airbag assembly from the tire.
 - (2) Place the front passenger airbag assembly in a vinyl bag, tie the end tightly and dispose of it in the same way as other general parts disposal.



3. DEPLOYMENT WHEN DISPOSING OF FRONT PASSENGER AIRBAG ASSEMBLY WITH AIRBAG DEPLOYED IN COLLISION

Dispose of the front passenger airbag assembly.

CAUTION:

- **The front passenger airbag assembly is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a front passenger airbag assembly with the deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water, etc. to a front passenger airbag assembly with the deployed airbag.**
 - (1) Remove the front passenger airbag assembly from the instrument panel (See page RS-27).
 - (2) Place the front passenger airbag assembly in a vinyl bag, tie the end tightly and dispose of it in the same way so as other general parts disposal.

REPLACEMENT

REPLACEMENT REQUIREMENTS

In the following cases, replace the front passenger airbag assembly, instrument panel or instrument panel reinforcement.

Case	Replacing part
If the airbag has been deployed.	Front passenger airbag assembly
If the front passenger airbag assembly has been found to be faulty in trouble-shooting.	Front passenger airbag assembly
If the front passenger airbag assembly has been found to be faulty during checking items (See page RS-28).	Front passenger airbag assembly
If the instrument panel has been found to be faulty during checking items (See page RS-28).	Instrument panel
If the instrument panel reinforcement has been found to be faulty during checking items (See page RS-28).	Instrument panel reinforcement
If the front passenger airbag assembly has been dropped.	Front passenger airbag assembly

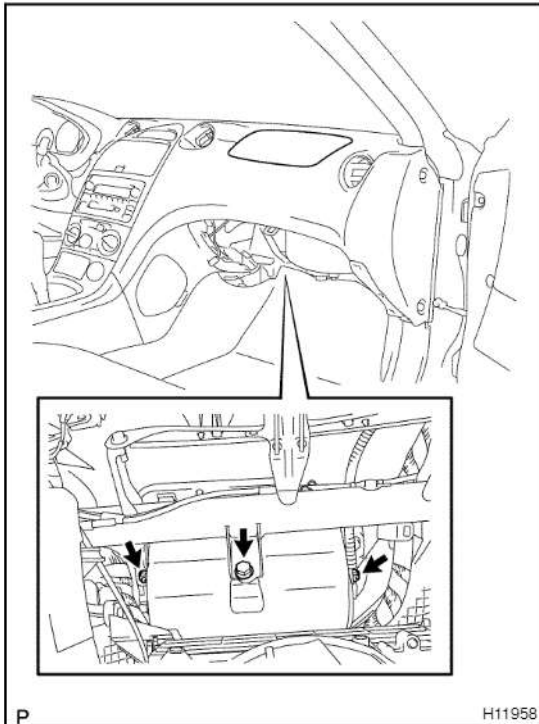
CAUTION:

For replacement of the front passenger airbag assembly, see page RS-27 and RS-38. Be sure to follow the correct procedure.

INSTALLATION

NOTICE:

Never use airbag parts from another vehicle. When replacing parts, replace them with new parts.



1. **INSTALL FRONT PASSENGER AIRBAG ASSEMBLY**
 - (a) Install the front passenger airbag assembly with the 2 nuts.

- (b) Install the bolt.

Torque: 20 N·m (205 kgf·cm, 15 ft·lbf)

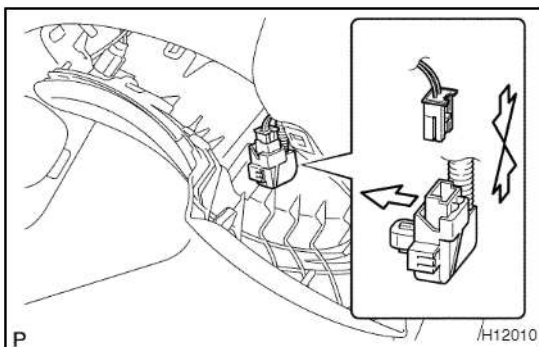
CAUTION:

- When installing the front passenger airbag assembly, take care that the wiring does not interfere with other parts and is not pinched between other parts.
- Make sure that no foreign objects are trapped between the airbag bag and within the module.

NOTICE:

If the front passenger airbag assembly has been dropped, or there are cracks, dents or other defects in the case or connector, replace the front passenger airbag assembly with a new one.

- (c) Install the airbag wire harness clamp.

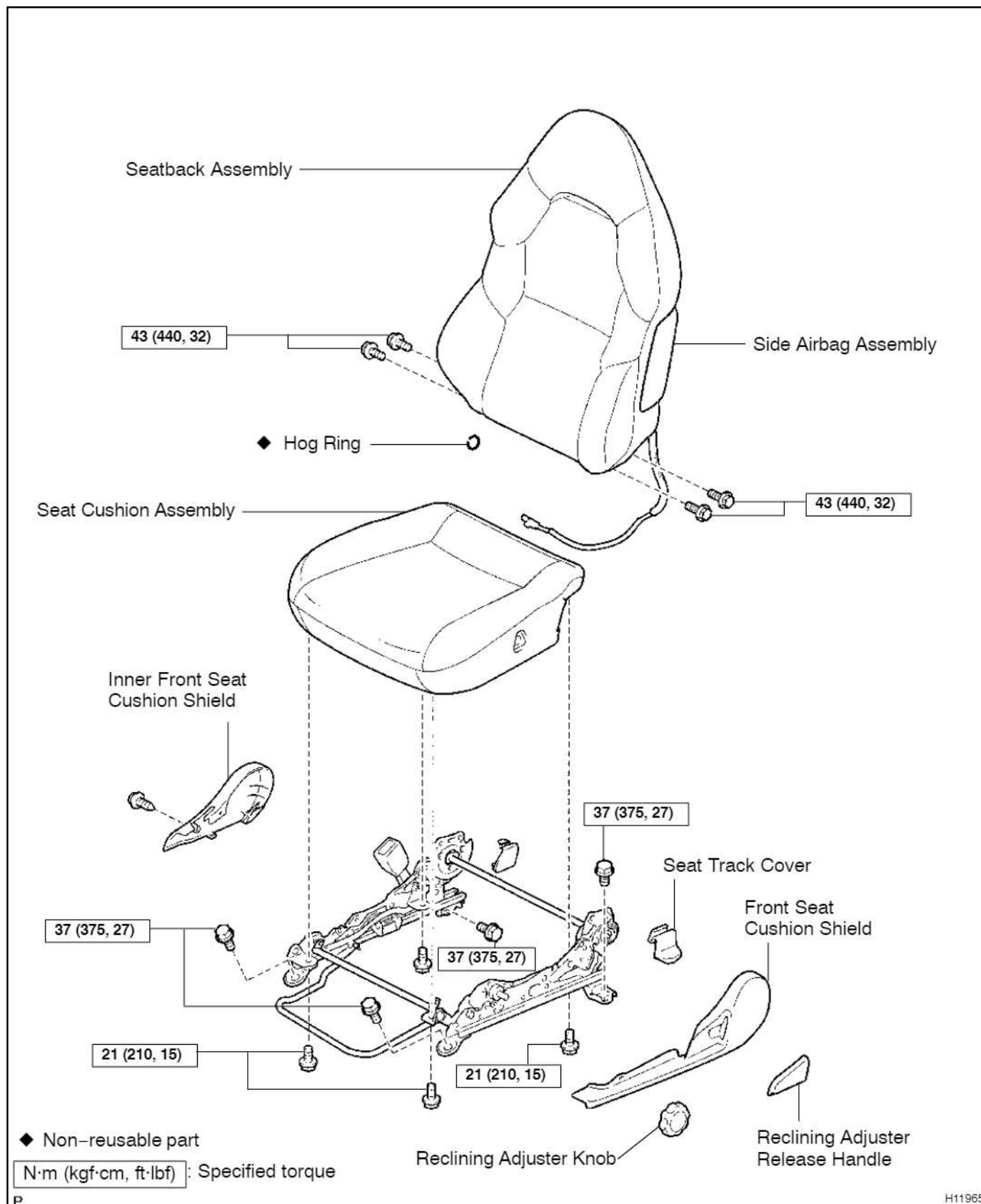


2. CONNECT AIRBAG CONNECTOR

- (a) Connect the airbag connector.
- (b) Install the connector cover to the lower finish panel.
- (c) Install the lower finish panel with the 3 screws and 2 bolts.

SIDE AIRBAG ASSEMBLY COMPONENTS

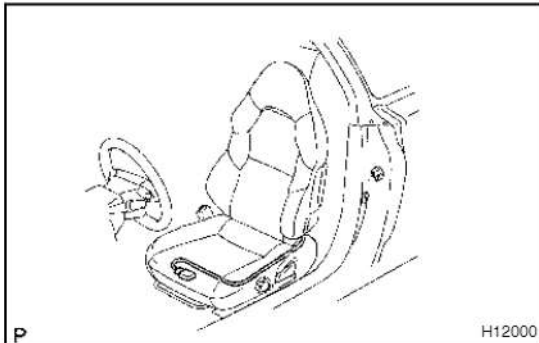
RS0K2-08



REMOVAL

NOTICE:

- If the wiring connector of the SRS is disconnected and the ignition switch is at ON position, DTCs will be recorded.
- Never use the airbag parts from another vehicle. When replacing parts, replace them with new parts.



1. REMOVE FRONT SEAT

- Remove the 2 seat track covers and 4 bolts.
- Disconnect the side airbag connector.

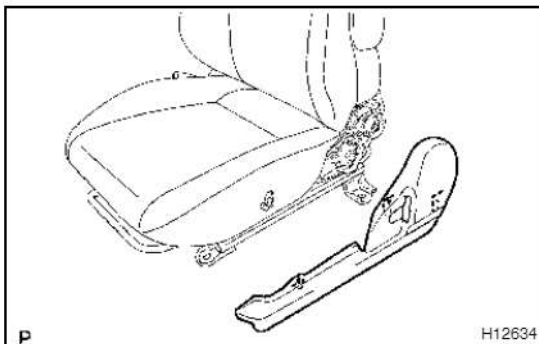
NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

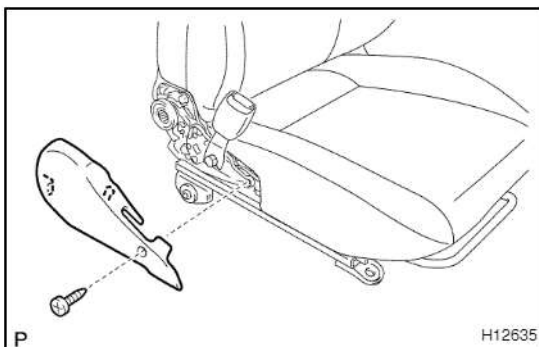
- Remove the front seat.

2. REMOVE RECLINING ADJUSTER RELEASE HANDLE

3. REMOVE RECLINING ADJUSTER KNOB



4. REMOVE FRONT SEAT CUSHION SHIELD



5. REMOVE INNER FRONT SEAT CUSHION SHIELD

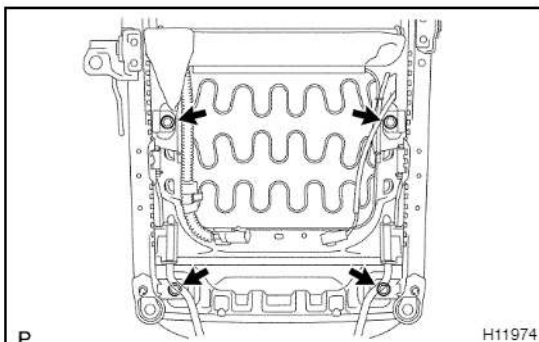
Remove the screw and inner front seat cushion shield

6. REMOVE SEAT CUSHION ASSEMBLY

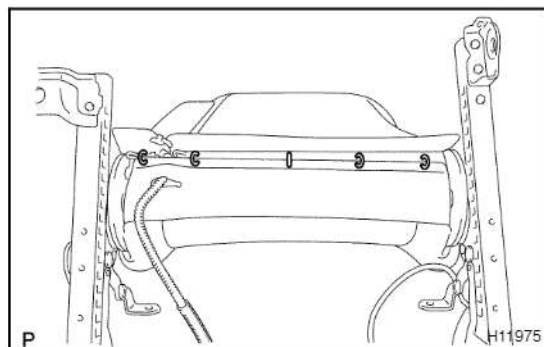
- Remove the wire harness from the seat cushion assembly.

NOTICE:

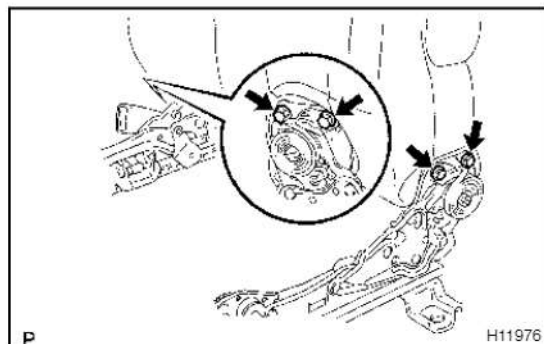
When handling the airbag wire harness, take care not to damage the airbag wire harness.



- Remove the 4 bolts and seat cushion assembly.

**7. REMOVE SEATBACK ASSEMBLY**

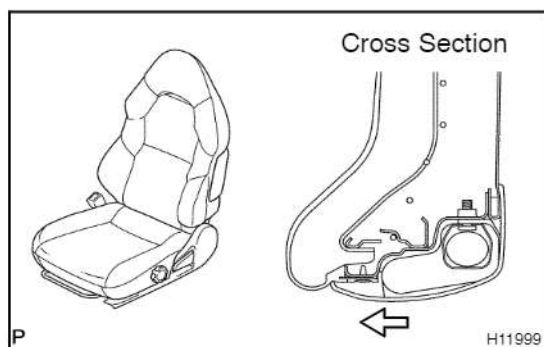
- (a) Remove the hog rings of the seatback frame, as shown in the illustration.



- (b) Remove the 4 bolts and seatback assembly.

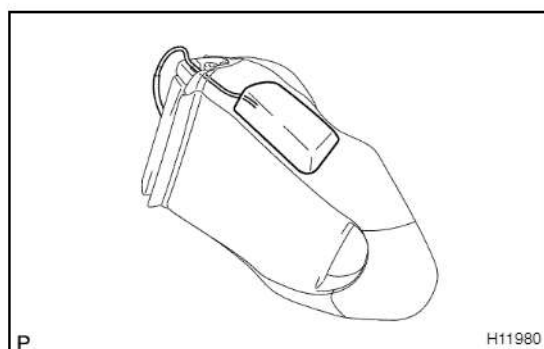
CAUTION:

Do not store the seatback assembly with the airbag deployment side facing downward.



INSPECTION

1. **Vehicles not involved in collision:**
INSPECT SUPPLEMENTAL RESTRAINT SYSTEM
 - (a) Do a diagnostic system check (See page DI-884).
 - (b) Do a visual check which includes the following item with the seatback assembly installed in the vehicle.
 Check that there are no cuts and cracks of the outside of side airbag assembly.
2. **Vehicle involved in a collision and airbag is not deployed:**
INSPECT SUPPLEMENTAL RESTRAINT SYSTEM
 - (a) Do a diagnostic system check (See page DI-884).



- (b) Do a visual check which includes the following items with the seatback assembly removed from the vehicle.
 - Check cuts and cracks of the side airbag assembly.
 - Check cuts and cracks in wire harness, and chipping in connectors.

CAUTION:

For removal and installation of the seatback assembly, see page RS-40 and RS-50. Be sure to follow the correct procedure.

3. **Vehicle involved in a collision and airbag is deployed:**
INSPECT SUPPLEMENTAL RESTRAINT SYSTEM
 - (a) Do a diagnostic system check (See page DI-884).
 - (b) Do a visual check which includes the following items with the seatback assembly removed from the vehicle.
 - Check the seatback installation part of the seat adjuster.
 - Check the damage to the connector and wire harness.

CAUTION:

For removal and installation of the seatback assembly, see page RS-40 and RS-50. Be sure to follow the correct procedure.

HINT:

If the seat adjuster is deformed, never repair it. Always replace it with new one.

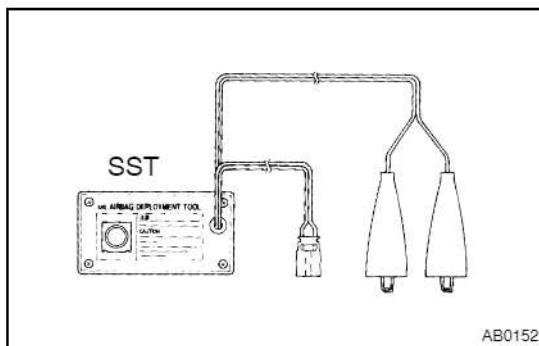
DISPOSAL

HINT:

When scrapping vehicles equipped with a SRS or disposing of the side airbag assembly always first deploy the airbag in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

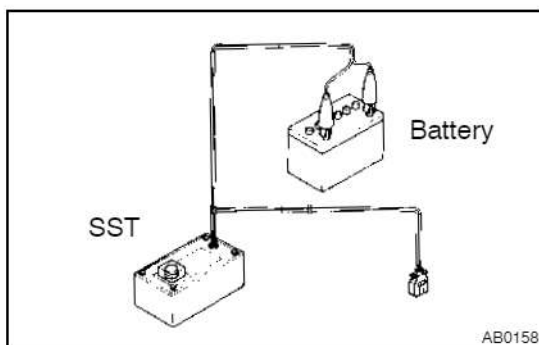
- **Never dispose of a steering wheel pad of which airbag has not deployed.**
- **The airbag produces a sizeable exploding sound when it deploys, so perform the operation out-of-doors and where it will not create a nuisance to nearby residents.**



- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool), perform the operation in a place away from electrical noise.**

SST 09082-00700

- **When deploying an airbag, perform the operation at least 10 m (33 ft) away from the airbag assembly.**
- **The side airbag assembly is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling side airbag assembly with the deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water, etc. to a side airbag assembly with the deployed airbag.**



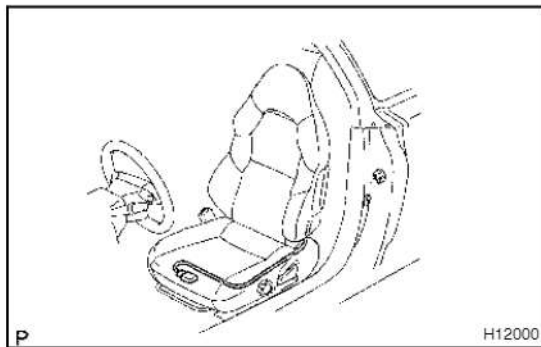
1. AIRBAG DEPLOYMENT WHEN SCRAPPING VEHICLE

HINT:

Have a battery ready as the power source to deploy the airbag.

- (a) Check functioning of the SST (See step 1-(a) on page RS-16).

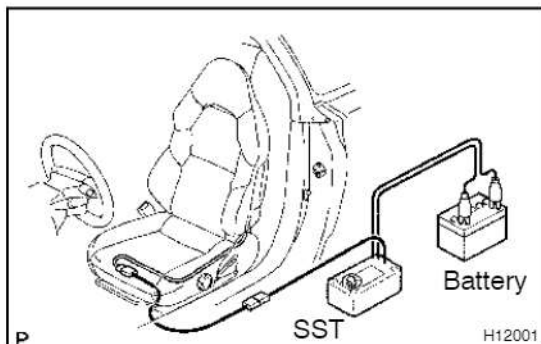
SST 09082-00700



(b) Disconnect the side airbag connector.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.



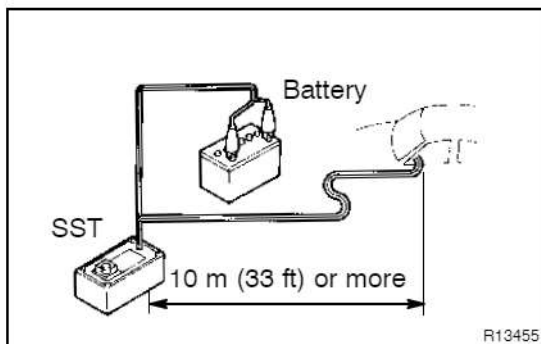
(c) Install the SST.

- (1) Connect the connectors of the 2 SST to the airbag connector.

SST 09082-00700, 09082-00750

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.



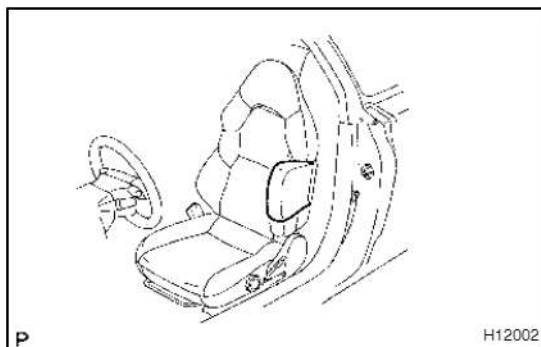
- (2) Move the SST at least 10 m (33 ft) away from the front of the vehicle.

- (3) Close all the doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

- (4) Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.



(d) Deploy the airbag.

- (1) Check that no one is inside the vehicle or within 10 m (33 ft) area around the vehicle.

- (2) Press the SST activation switch and deploy the airbag.

CAUTION:

- The side airbag assembly is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling the side airbag assembly with the deployed airbag.
- Do not apply water, etc. to the side airbag assembly with the deployed airbag.
- Always wash your hands with water after completing the operation.
- When scrapping a vehicle, deploy the airbag and scrap the vehicle with the side airbag assembly still installed.

HINT:

The airbag deploys simultaneously as the LED of SST activation switch lights up.

2. DEPLOYMENT WHEN DISPOSING OF SIDE AIRBAG ASSEMBLY

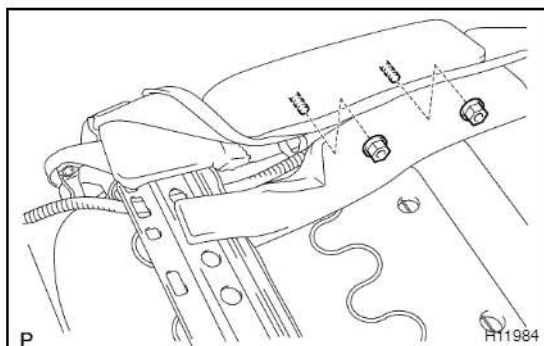
NOTICE:

- When disposing of the side airbag assembly only, never use the customer's vehicle to deploy the airbag.
- Be sure to follow the procedure given below when deploying the airbag.

HINT:

Have a battery ready as the power source to deploy the airbag.

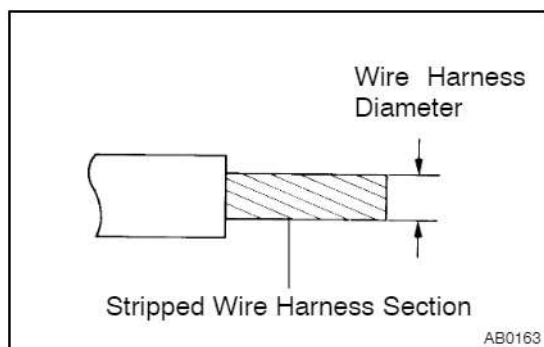
- Remove the seatback assembly (See page RS-40).
- Open the fastener of the seatback cover.



- Remove the side airbag assembly from the seatback assembly.

CAUTION:

When storing the side airbag assembly, keep the upper surface of the airbag deployment side facing upward.



- Using a service-purpose wire harness, tie down the side airbag assembly to the tire.

Wire harness: Stripped wire harness section
1.25 mm² or more (0.0019 in². or more)

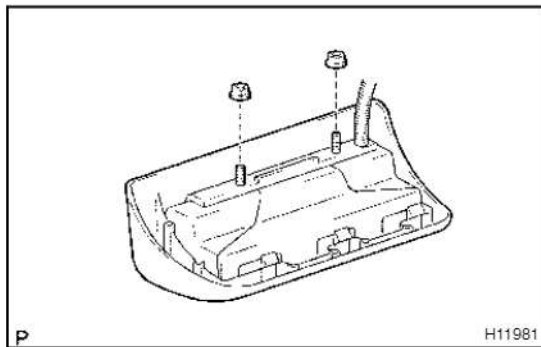
CAUTION:

If a wire harness which is too thin or some other thing is used to tie down the side airbag assembly, it may be snapped by the shock when the airbag is deployed. This is highly dangerous. Always use a wire harness for vehicle use which is at least 1.25 mm² (0.0019 in².).

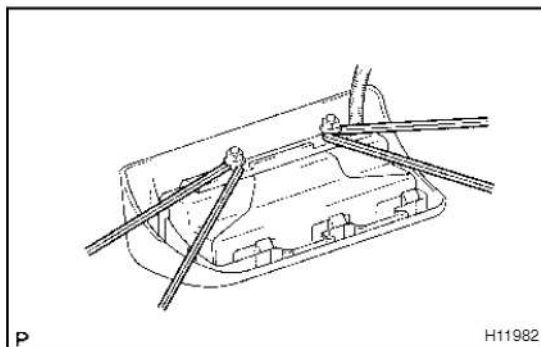
HINT:

To calculate the square of the stripped wire harness section-

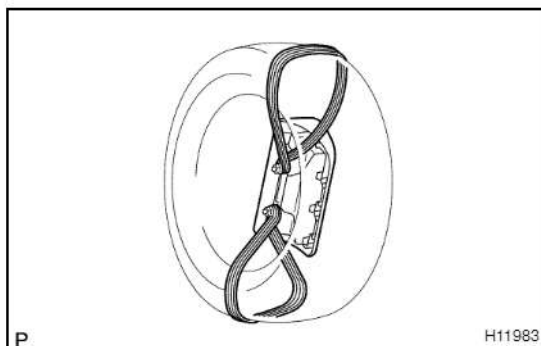
$$\text{Square} = 3.14 \times (\text{Diameter})^2 \text{ divided by } 4$$



- (1) Install the 2 nuts to the side airbag assembly.



- (2) Wind the wire harness around the stud bolts of the side airbag assembly as shown in the illustration.



- (3) Position the side airbag assembly inside the tire with the airbag deployment direction facing inside.

Tire size: Must exceed the following dimensions-

Width: 185 mm (7.28 in.)

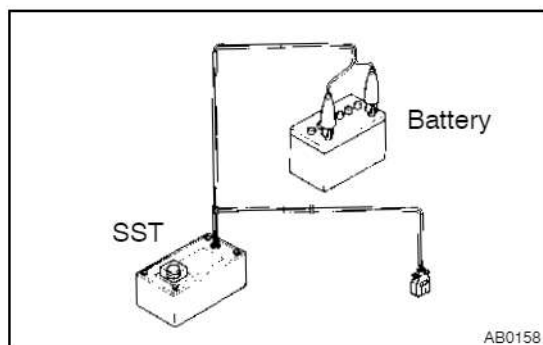
Inner diameter: 360 mm (14.17 in.)

CAUTION:

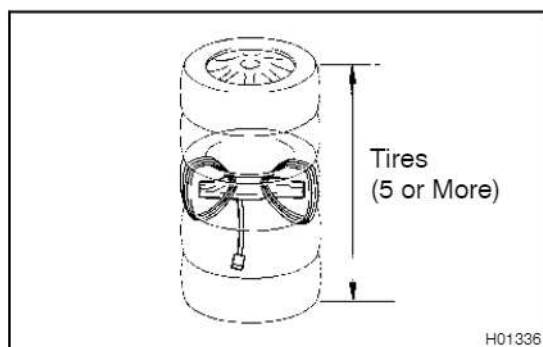
- Make sure the wire harness is tight. It is very dangerous when a loose wire harness results in the side airbag assembly coming free due to the shock from the airbag deploying.
- Always tie down the side airbag assembly with the airbag deployment side facing inside.

NOTICE:

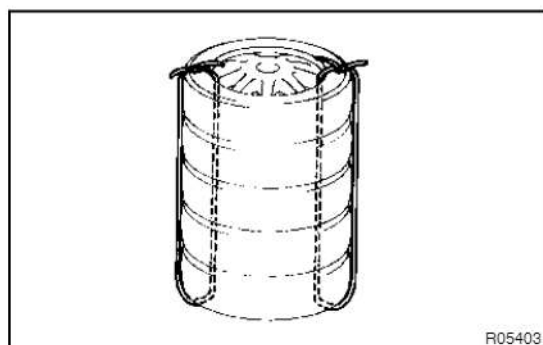
The tire will be marked by the airbag deployment, so when disposing of the airbag use a redundant tire.



- (e) Check functioning of the SST (See step 1-(a) on page RS-16).
SST 09082-00700



- (f) Place the tires.
- (1) Place at least 2 tires under the tire to which the side airbag assembly is tied.
 - (2) Place at least 2 tires over the tire to which the side airbag assembly is tied. The top tire should have the wheel installed.



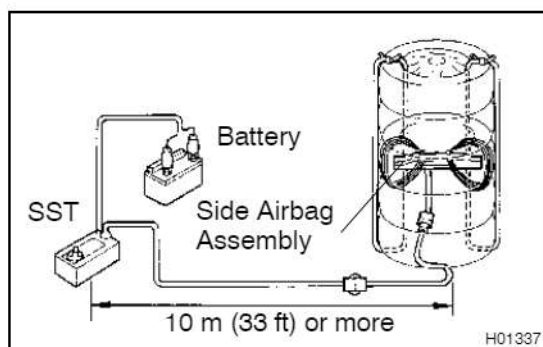
- (3) Tie the tires together with 2 wire harnesses.

CAUTION:

Make sure that the wire harnesses are tight. It is very dangerous when loose wire harnesses result in the tires coming free due to the shock from the airbag deploying.

HINT:

Place the SST connector and wire harnesses inside tires. Secure at least 1 m (3 ft) of slack for the wire harness.



- (g) Install the SST.
Connect the connectors of the 2 SST to the side airbag assembly connector.

SST 09082-00700, 09082-00750

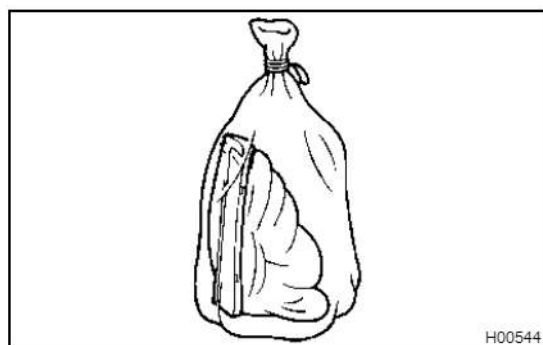
NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.

- (h) Deploy the airbag.
- (1) Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (–) terminal.
 - (2) Check that no one is within 10 m (33 ft) area around the tire which the side airbag assembly is tied to.
 - (3) Press the SST activation switch and deploy the airbag.

HINT:

The airbag deploys simultaneously as the LED of the SST activation switch lights up.

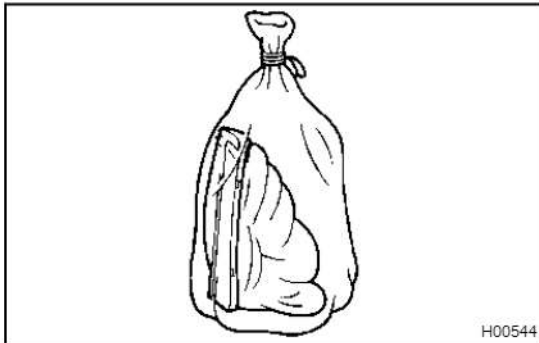


- (i) Dispose of the side airbag assembly.

CAUTION:

- The side airbag assembly is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a side airbag assembly with the deployed airbag.
- Do not apply water etc. to a side airbag assembly with the deployed airbag.

- **Always wash your hands with water after completing the operation.**
 - (1) Remove the side airbag assembly from the tire.
 - (2) Place the side airbag assembly in a vinyl bag, tie the end tightly and dispose of it in the same way as other general parts disposal.



3. DEPLOYMENT WHEN DISPOSING OF SIDE AIRBAG ASSEMBLY WITH AIRBAG DEPLOYED IN COLLISION

Dispose of the side airbag assembly.

CAUTION:

- **The side airbag assembly is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a side airbag assembly with the deployed airbag.**
- **Do not apply water etc. to a side airbag assembly with the deployed airbag.**
- **Always wash your hands with water after completing the operation.**
 - (1) Remove the side airbag assembly from the seat (See page RS-40 and see step 2).
 - (2) Place the side airbag assembly in a vinyl bag, tie the end tightly and dispose of it in the same way as other general parts disposal.

REPLACEMENT

REPLACEMENT REQUIREMENTS

In the following cases, replace the seatback assembly.

Case	Replacing part
If the side airbag has been deployed.	Seatback assembly
If the side airbag assembly has been found to be faulty in troubleshooting.	Seatback assembly
If the side airbag assembly has cuts during checking items (See page RS-42).	Seatback assembly
If the side airbag assembly has been found to be faulty during checking items (See page RS-42).	Seatback assembly
If the seatback assembly has been dropped.	Seatback assembly

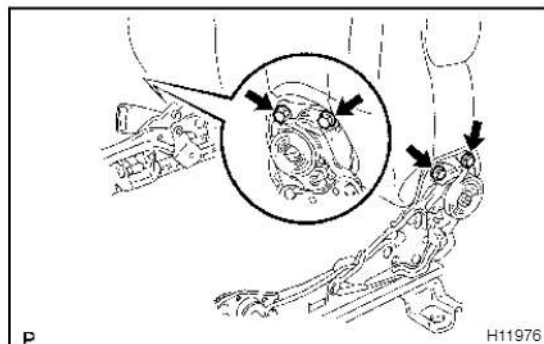
CAUTION:

For removal and installation of the seatback assembly, see page RS-40 and RS-50. Be sure to follow the correct procedure.

INSTALLATION

NOTICE:

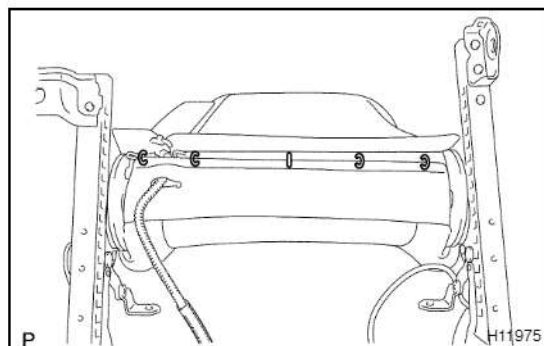
Never use airbag parts from another vehicle. When replacing parts, replace them with new parts.



1. INSTALL SEATBACK ASSEMBLY

- (a) Install the seatback assembly to the seat adjuster with the 4 bolts.

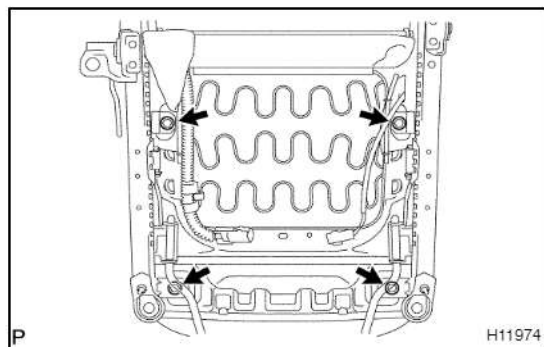
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)



- (b) Install 5 new hog rings.

HINT:

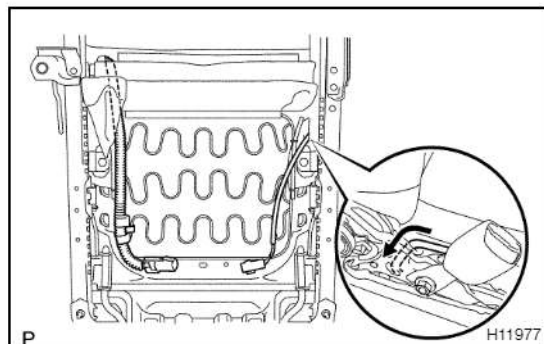
When installing the hog rings, take care to prevent wrinkles as little as possible.



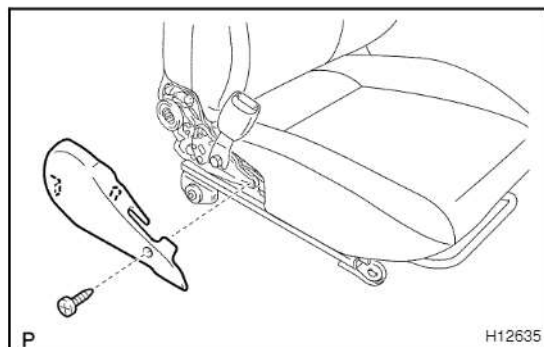
2. INSTALL SEAT CUSHION ASSEMBLY

- (a) Install the seat cushion assembly with the 4 bolts.

Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

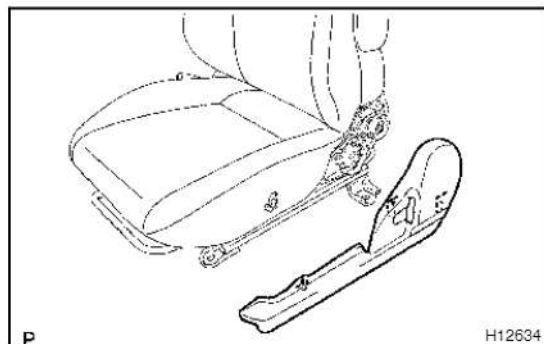


- (b) Install the wire harness to the seat cushion assembly.



3. INSTALL INNER FRONT SEAT CUSHION SHIELD

Install the inner front seat cushion shield with the screw.



4. INSTALL FRONT SEAT CUSHION SHIELD

5. INSTALL RECLINING ADJUSTER KNOB

6. INSTALL RECLINING ADJUSTER RELEASE HANDLE

7. INSTALL FRONT SEAT

NOTICE:

When mounting the seat to the vehicle, take care not to damage the airbag wire harness.

- (a) Connect the side airbag connector.
- (b) Slide the front seat to the most front position.

NOTICE:

Make sure that seat adjuster locks.

- (c) Without holding the seat track handle, mount the seat to the vehicle.

HINT:

If holding the seat track handle, the adjusted rearmost position slip off.

- (d) Tighten the bolts on the front side temporarily, from the bolt on the inner side tighten them completely.

Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)

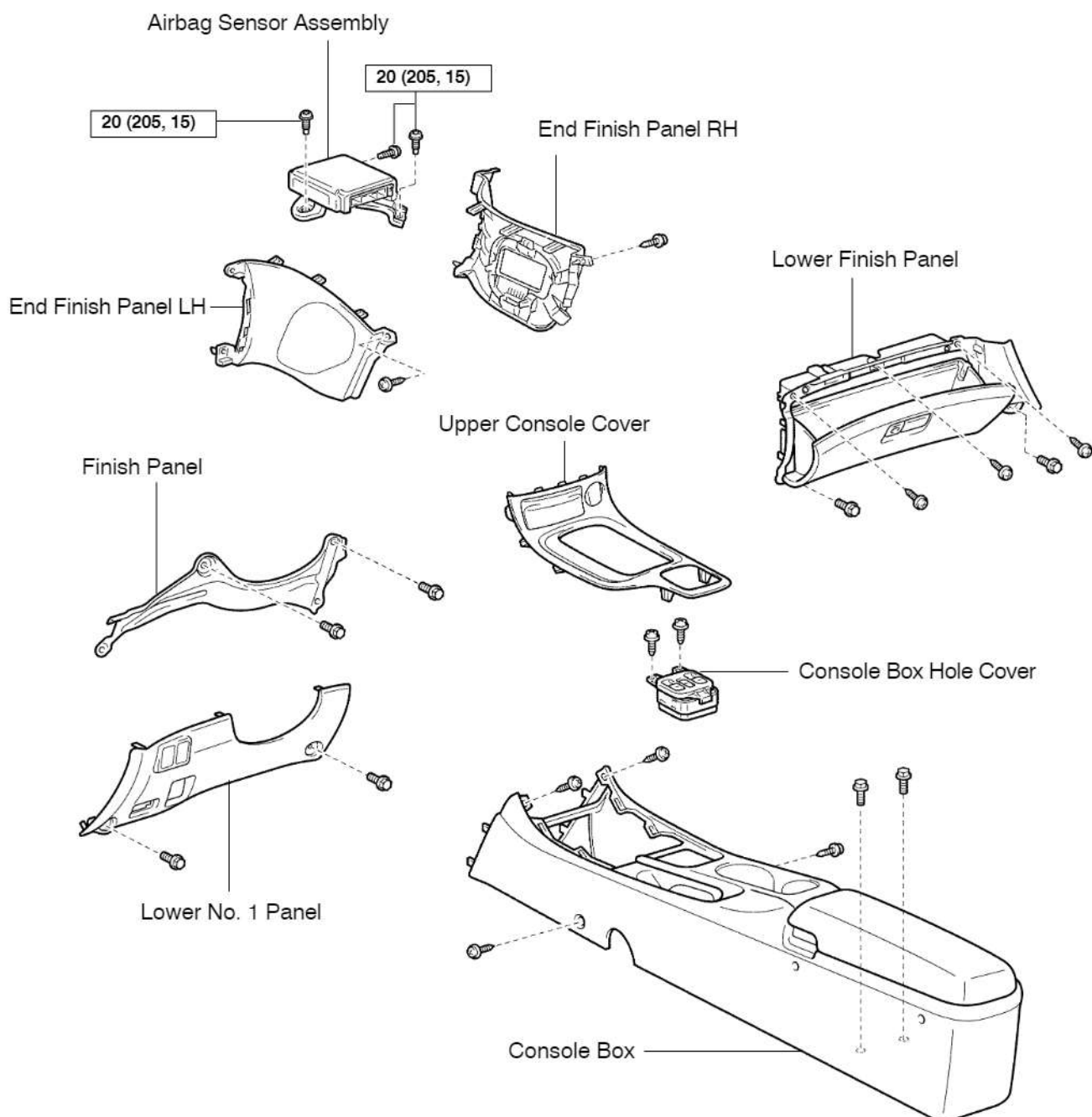
- (e) Slide the seat to the most front position to install the bolts on the rear side.

Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)

- (f) Install the 2 seat track covers.

AIRBAG SENSOR ASSEMBLY COMPONENTS

RS0K3-13



N·m (kgf·cm, ft·lbf) : Specified torque

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REMOVAL

NOTICE:

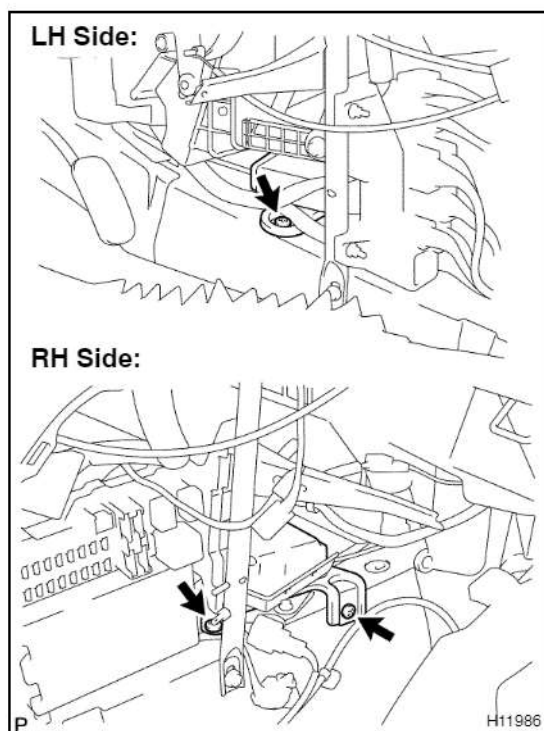
Do not open the cover or the case of the ECU and various electrical devices unless absolutely necessary.

(If the IC terminals are touched, the IC may be destroyed by static electricity.)

HINT:

For step 1 to 8, refer to page BO-79.

1. REMOVE LOWER FINISH PANEL
2. REMOVE LOWER NO. 1 PANEL
3. REMOVE FINISH PANEL
4. REMOVE UPPER CONSOLE COVER
5. REMOVE CONSOLE BOX HOLE COVER
6. REMOVE CONSOLE BOX
7. REMOVE END FINISH PANEL LH
8. REMOVE END FINISH PANEL RH



9. REMOVE AIRBAG SENSOR ASSEMBLY

- (a) Disconnect the airbag sensor connectors.

NOTICE:

Disconnect the connectors with the airbag sensor assembly installed.

- (b) Using a torx® wrench, remove the 3 screws and airbag sensor assembly.

Torx® wrench: T40 (Part No.09042-00020 or locally manufactured tool)

INSPECTION

1. VEHICLE NOT INVOLVED IN COLLISION

Do a diagnostic system check (See page DI-884).

2. VEHICLE INVOLVED IN COLLISION AND AIRBAG IS NOT DEPLOYED

Do a diagnostic system check (See page DI-884).

3. VEHICLE INVOLVED IN COLLISION AND AIRBAG IS DEPLOYED

Replace the airbag sensor assembly (See page DI-884).

REPLACEMENT

REPLACEMENT REQUIREMENTS

In the following cases, replace the airbag sensor assembly.

- If the SRS has been deployed in a collision.
- If the airbag sensor assembly has been found to be faulty in troubleshooting.
- If the airbag sensor assembly has been dropped.

CAUTION:

For removal and installation of the airbag sensor assembly, see page RS-53 and RS-56. Be sure to follow the correct procedure.

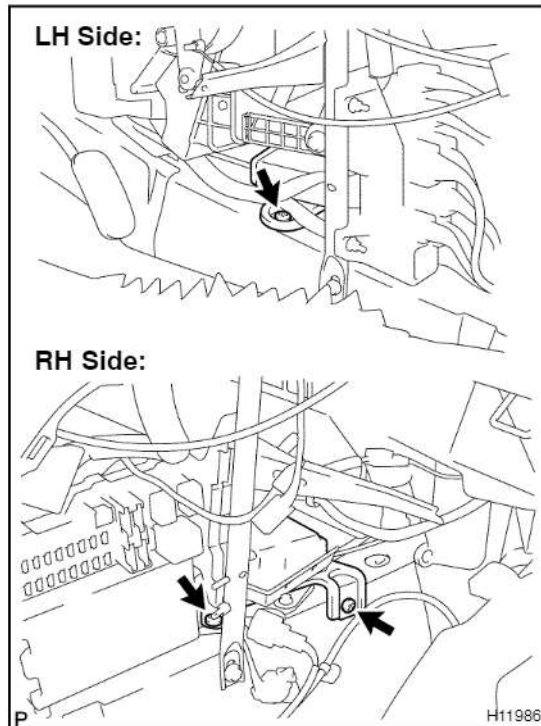
INSTALLATION

NOTICE:

- Never use SRS parts from another vehicle. When replacing parts, replace them with new parts.
- Never reuse the airbag sensor assembly involved in a collision when the airbag has deployed.
- Never repair a sensor in order to reuse it.

HINT:

For step 2 to 9, refer to page BO-85.



1. INSTALL AIRBAG SENSOR ASSEMBLY

- (a) Using a torx® wrench, install the airbag sensor assembly with the 3 screws.

Torx® wrench: T40 (Part No.09042-00020 or locally manufactured tool)

Torque: 20 N·m (205 kgf·cm, 15 ft·lbf)

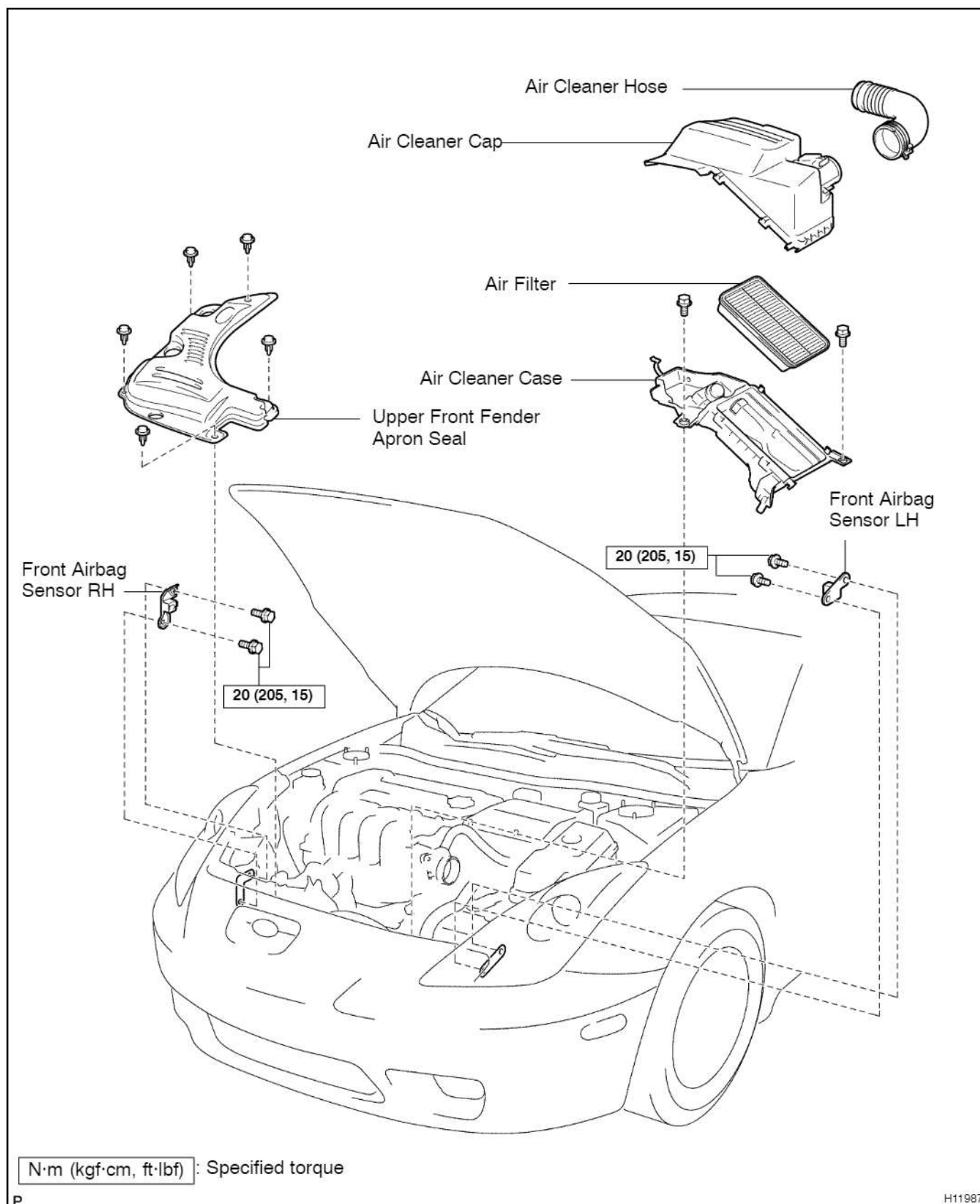
- (b) Connect the airbag sensor connectors.

NOTICE:

- Connection of the connector is done after the sensor assembly has been installed.
 - Make sure the sensor assembly is installed with the specified torque.
 - If the sensor assembly has been dropped, or there are cracks, dents or other defects in the case, bracket or connector, replace the sensor assembly with a new one.
 - When installing the sensor assembly, take care that the SRS wiring does not interfere with other parts and is not pinched between other parts.
 - After installing, shake the sensor assembly to check that there is no looseness.
2. INSTALL END FINISH PANEL RH
 3. INSTALL END FINISH PANEL LH
 4. INSTALL CONSOLE BOX
 5. INSTALL CONSOLE BOX HOLE COVER
 6. INSTALL UPPER CONSOLE COVER
 7. INSTALL FINISH PANEL
 8. INSTALL LOWER NO. 1 PANEL
 9. INSTALL LOWER FINISH PANEL

FRONT AIRBAG SENSOR COMPONENTS

RS0KD-11



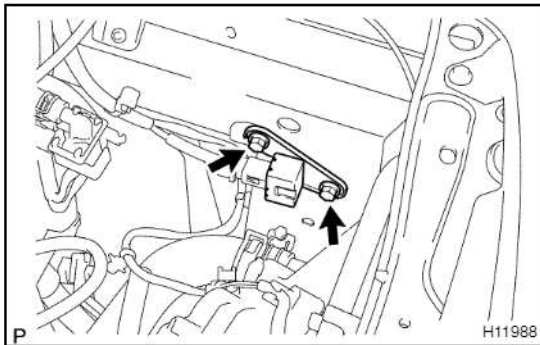
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REMOVAL

NOTICE:

- If the wiring connector of the SRS is disconnected with the ignition switch at ON position, DTCs will be recorded.
- Never use SRS parts from another vehicle. When replacing parts, replace them with new parts.
- Never reuse the sensor involved in a collision when the SRS has deployed.
- Never repair a sensor in order to reuse it.



1. LH: REMOVE FRONT AIRBAG SENSOR

- Remove the air cleaner hose.
- Remove the air cleaner cap.
- Remove the air filter.
- Remove the 2 bolts and air cleaner case.
- Disconnect the connector.

NOTICE:

Disconnect the connector with sensor assembly installed.

- Remove the 2 bolts and front airbag sensor LH.

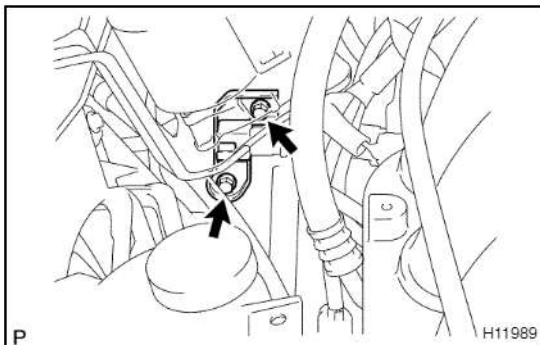
2. RH: REMOVE FRONT AIRBAG SENSOR

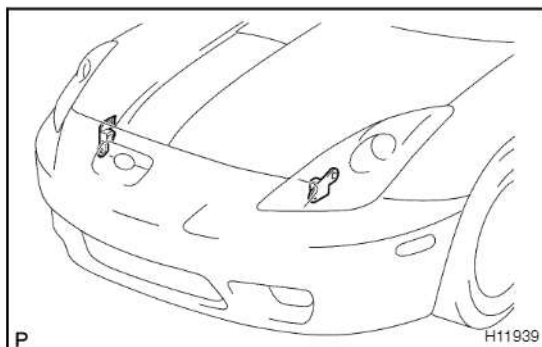
- Remove the 5 clips and upper front fender apron seal.
- Disconnect the connector.

NOTICE:

Disconnect the connector with sensor assembly installed.

- Remove the 2 bolts and front airbag sensor RH.





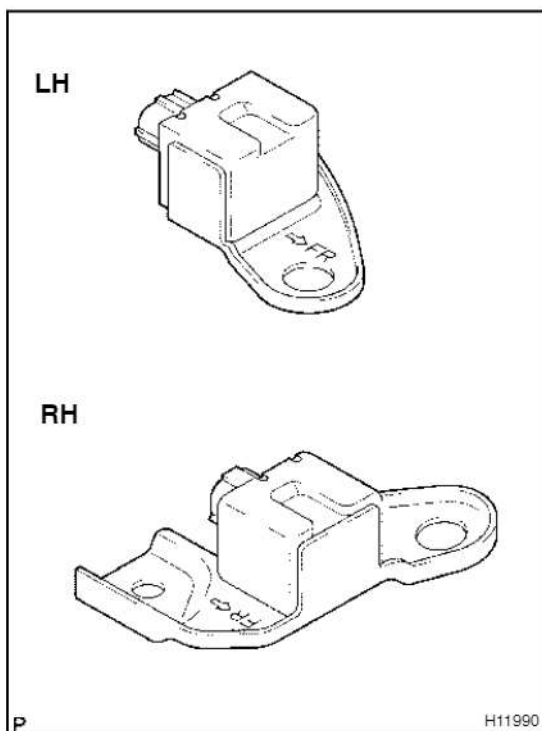
INSPECTION

1. VEHICLES NOT INVOLVED IN COLLISION

Do a diagnostic system check (See page DI-884).

2. VEHICLES INVOLVED IN COLLISION

- (a) Do a diagnostic system check (See page DI-884).
- (b) If the front fender of the car or its periphery is damaged, do a visual check for damage to the front airbag sensor, which includes the following items even if the airbag was not deployed:
 - Check the bracket deformation.
 - Check the paint peeling off the bracket.
 - Check the cracks, dents or chips in the case.
 - Check the cracks, dents, chipping and scratches in the connector.
 - Check the peeling off of the label or damage to the serial number.



REPLACEMENT

REPLACEMENT REQUIREMENTS

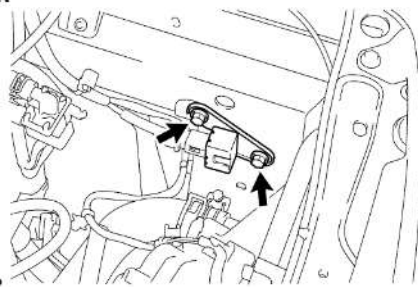
In the following cases, replace the front airbag sensor.

- If the SRS has been deployed in a collision. (Replace both the left and right airbag sensors.)
- If the front airbag sensor has been found to be faulty in troubleshooting.
- If the front airbag sensor has been found to be faulty during checking items (See page RS-59).
- If the front airbag sensor has been dropped.

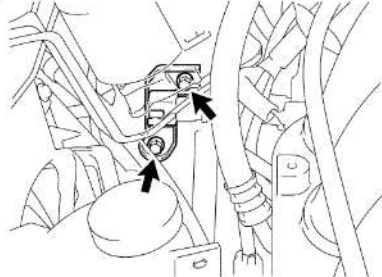
CAUTION:

For removal and installation of the front airbag sensor, see page RS-58 and RS-61. Be sure to follow the correct procedure.

LH:



RH:

P
H11988
H11989

H12013

INSTALLATION

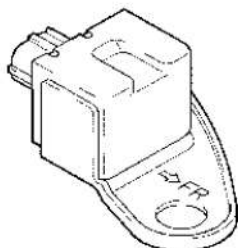
1. INSTALL FRONT AIRBAG SENSOR LH AND RH

- (a) Install the front airbag sensors with the 4 bolts.
Torque: 20 N·m (205 kgf·cm, 15 ft·lbf)
- (b) Connect the front airbag sensor connector.

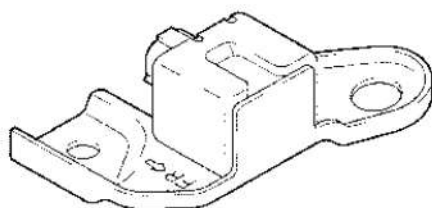
NOTICE:

- Connection of the connector is done after the sensor assembly has been installed.
- Make sure the sensor is installed with the specified torque.
- If the sensor has been dropped, or there are cracks, dents or other defects in the case, brackets or connector, replace the removed sensor with a new one.
- The front sensor is equipped with an electrical connection check mechanism. Be sure to lock this mechanism securely when connecting the connector. If the connector is not securely locked, a malfunction code will be detected by the diagnostic system.

LH:



RH:



P

H11990

HINT:

Install the front airbag sensor with the arrow on the sensor facing toward the front of the vehicle.

2. INSTALL HEAD LIGHT

Install head lights with the 4 bolts and 2 screws (See page BE-22).

3. INSTALL AIR CLEANER CASE

Install the air cleaner case with the 2 bolts.

4. INSTALL AIR FILTER

5. INSTALL AIR CLEANER CAP

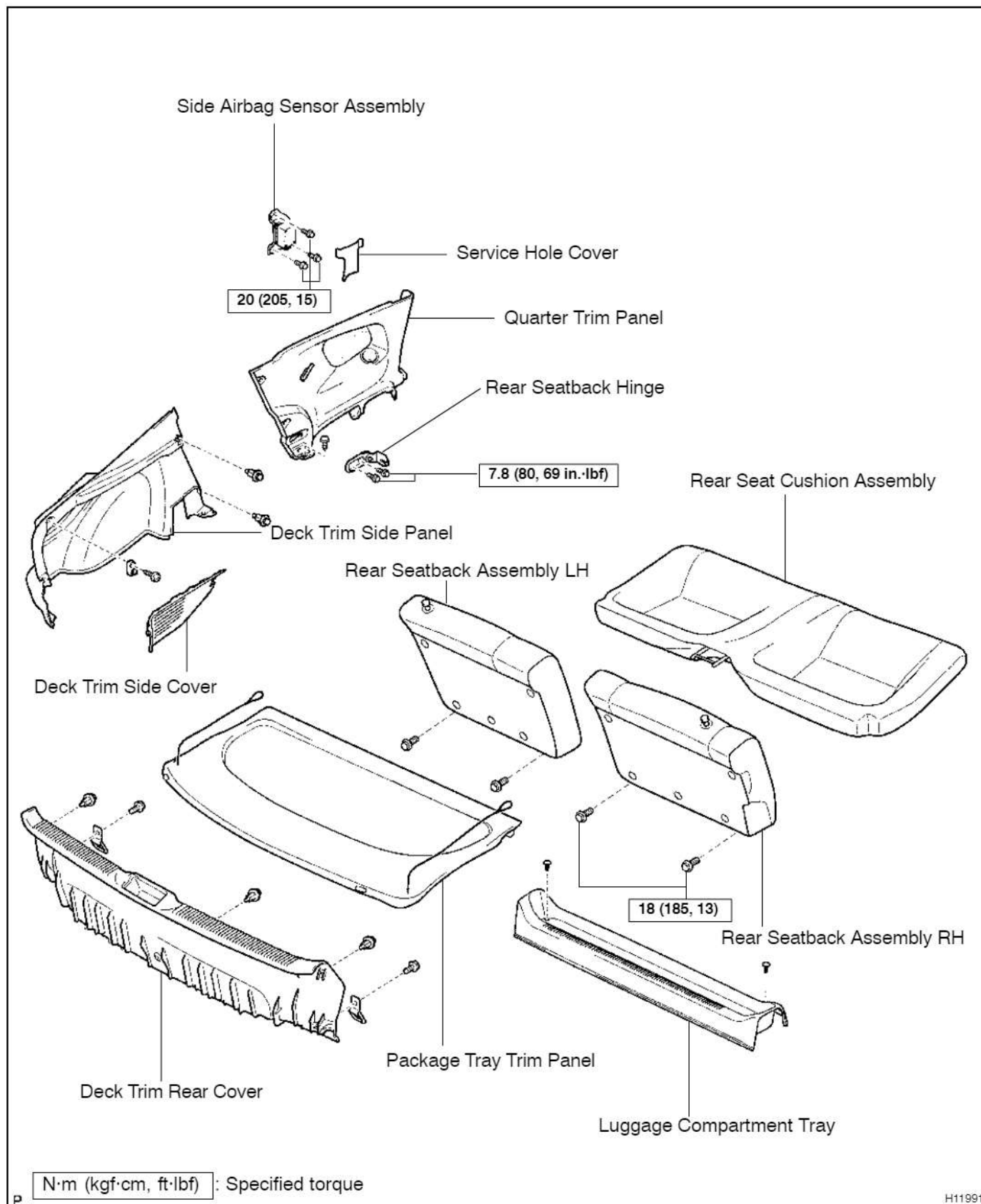
6. INSTALL AIR CLEANER HOSE

7. INSTALL UPPER FRONT FENDER APRON SEAL

Install the upper front fender apron seal with the 5 clips.

SIDE AIRBAG SENSOR ASSEMBLY COMPONENTS

RS010-06



H11991

REMOVAL

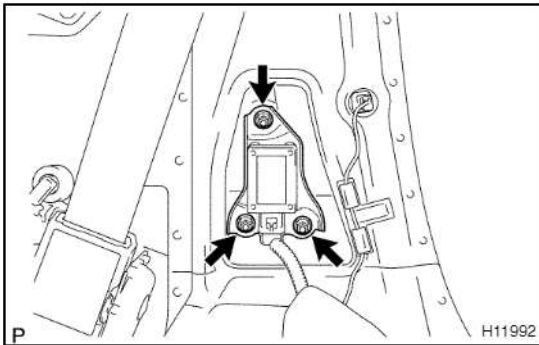
NOTICE:

- If the wiring connector of the SRS is disconnected with the ignition switch at ON position, DTCs will be recorded.
- Do not open the cover or the case of the ECU and various electrical devices unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)

HINT:

For step 1 to 9, refer to page BO-88.

1. REMOVE PACKAGE TRAY TRIM PANEL
2. REMOVE REAR SEATBACK ASSEMBLY LH AND RH
3. REMOVE REAR SEAT CUSHION ASSEMBLY
4. REMOVE DECK TRIM REAR COVER
5. REMOVE DECK TRIM SIDE COVER
6. REMOVE DECK TRIM SIDE PANEL
7. REMOVE LUGGAGE COMPARTMENT TRAY
8. REMOVE REAR SEATBACK HINGE
9. REMOVE QUARTER TRIM PANEL



10. REMOVE SIDE AIRBAG SENSOR ASSEMBLY

- (a) Remove the cover.
- (b) Disconnect the connector.

NOTICE:

Remove the connector with the sensor assembly installed.

- (c) Remove the 3 nuts and side airbag sensor assembly.

INSPECTION

1. VEHICLES NOT INVOLVED IN COLLISION

Do a diagnostic system check (See page DI-884).

2. VEHICLE INVOLVED IN COLLISION AND AIRBAG IS NOT DEPLOYED

Do a diagnostic system check (See page DI-884).

3. VEHICLE INVOLVED IN COLLISION AND AIRBAG IS DEPLOYED

Replace the side airbag sensor assembly (See page DI-884).

REPLACEMENT

REPLACEMENT REQUIREMENTS

In the following cases, replace the side airbag sensor assembly.

- If the side airbag assembly has been deployed in a collision.
- If the side airbag sensor assembly has been found to be faulty in troubleshooting.
- If the side airbag sensor assembly has been dropped.

CAUTION:

For removal and installation of the side airbag sensor assembly, see page RS-63 and RS-66. Be sure to follow the correct procedure.

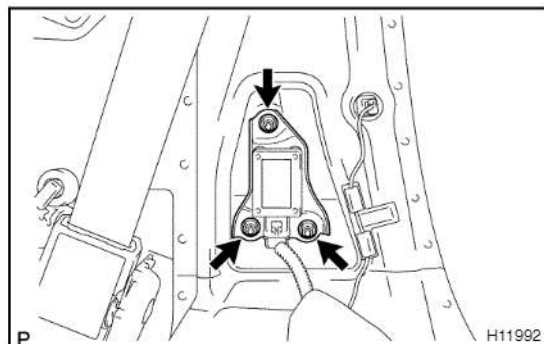
INSTALLATION

NOTICE:

- Never use SRS parts from another vehicle. When replacing parts, replace them with new ones.
- Never reuse the side airbag sensor assembly involved in a collision when the airbag has deployed.
- Never repair a sensor in order to reuse it.

HINT:

For step 2 to 10, refer to page BO-91.



1. INSTALL SIDE AIRBAG SENSOR

- (a) Install the side airbag assembly with 3 screws.
Torque: 20 N·m (205 kgf·cm, 15 ft·lbf)
- (b) Connect the connector.

NOTICE:

- Connection of the connector is done after the sensor assembly has been installed.
- Make sure the sensor assembly is installed with the specified torque.
- If the sensor assembly has been dropped, or there are cracks, dents or other defects in the case, bracket or connector, replace the sensor assembly with a new one.
- When installing the sensor assembly, take care that the SRS wiring does not interfere with other parts and is not pinched between other parts.
- After installation, shake the sensor assembly to check that there is no looseness.

- (c) Install the cover.

2. INSTALL QUATER TRIM PANEL

3. INSTALL REAR SEAT BACK HINGE

Torque: 7.8 N·m (80 kgf·cm, 69 in·lbf)

4. INSTALL LUGGAGE COMPARTMENT TRAY

5. INSTALL DECK TRIM SIDE PANEL

6. INSTALL DECK TRIM SIDE COVER

7. INSTALL DECK TRIM REAR COVER

8. INSTALL REAR SEAT CUSHION ASSEMBLY

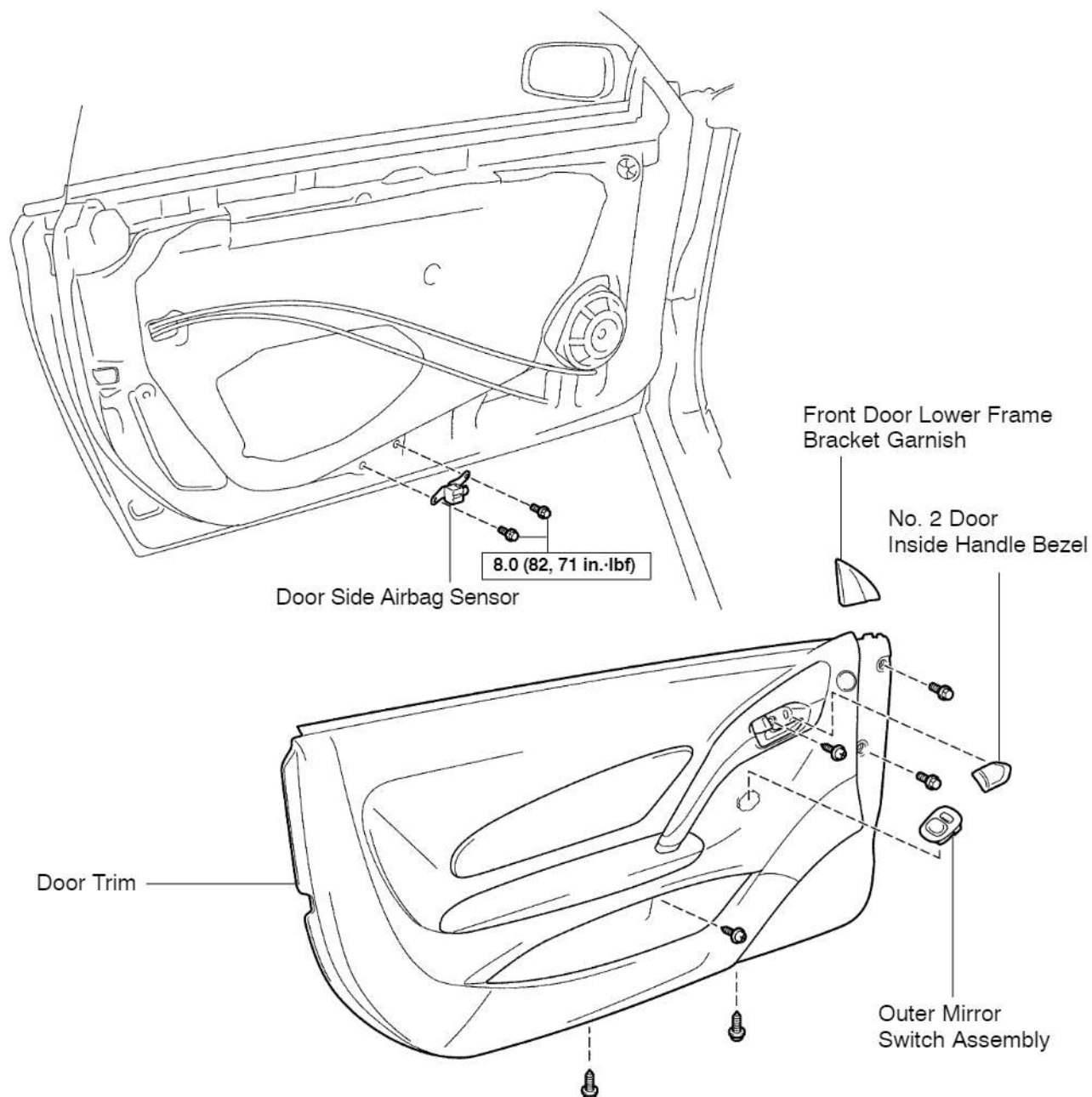
9. INSTALL REAR SEATBACK ASSEMBLY LH AND RH

Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

10. INSTALL PACKAGE TRAY TRIM PANEL

DOOR SIDE AIRBAG SENSOR COMPONENTS

RS00N-03



N·m (kgf·cm, ft·lbf) : Specified torque

P

H11993

REMOVAL

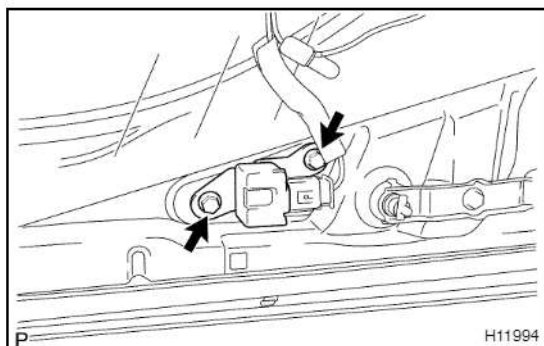
NOTICE:

- If the wiring connector of the SRS is disconnected with the ignition switch at ON position, DTCs will be recorded.
- Never use SRS parts from another vehicle. When replacing parts, replace them with new parts.
- Never reuse the sensor involved in a collision when the SRS has deployed.
- Never repair a sensor in order to reuse it.

HINT:

For step 1 to 4, refer to page BO-11.

1. REMOVE NO. 2 DOOR INSIDE HANDLE BEZEL
2. REMOVE OUTER MIRROR SWITCH ASSEMBLY
3. REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH
4. REMOVE DOOR TRIM



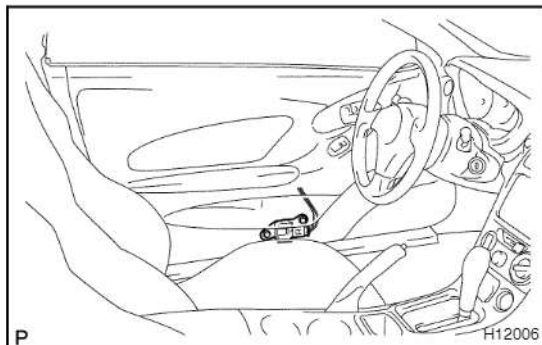
5. REMOVE DOOR SIDE AIRBAG SENSOR

- (a) Disconnect the door side airbag sensor connector.

NOTICE:

Disconnect the connector with sensor assembly installed.

- (b) Remove the 2 bolts and door side airbag sensor.



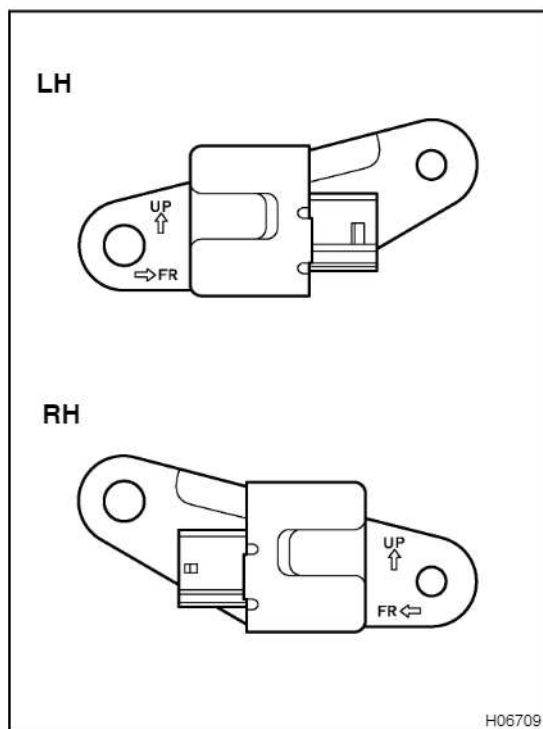
INSPECTION

1. VEHICLES NOT INVOLVED IN COLLISION

Do a diagnostic system check (See page DI-884).

2. VEHICLES INVOLVED IN COLLISION

- (a) Do a diagnostic system check (See page DI-884).
- (b) If the front door or its periphery is damaged, do a visual check for damage to the door side airbag sensor, which includes the following items even if the airbag was not deployed:
 - Check the bracket deformation.
 - Check the paint peeling off the bracket.
 - Check the cracks, dents or chips in the case.
 - Check the cracks, dents, chipping and scratches in the connector.
 - Check the peeling off of the label or damage to the serial number.



REPLACEMENT

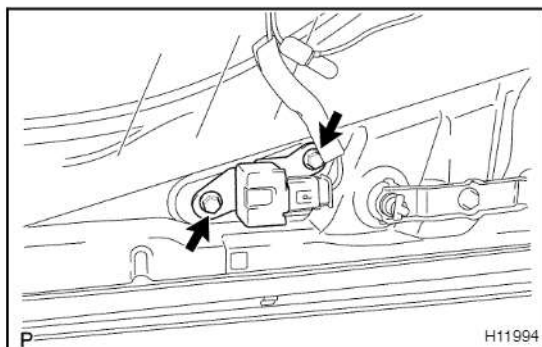
REPLACEMENT REQUIREMENTS

In the following cases, replace the front airbag sensor.

- If the side airbag assembly has been deployed in a collision.
- If the door side airbag sensor has been found to be faulty in troubleshooting.
- If the door side airbag sensor has been found to be faulty during checking items (See page RS-59).
- If the door side airbag sensor has been dropped.

CAUTION:

For removal and installation of the door side airbag sensor, see page RS-68 and RS-71. Be sure to follow the correct procedure.



INSTALLATION

HINT:

For step 2 to 5, refer to page BO-21.

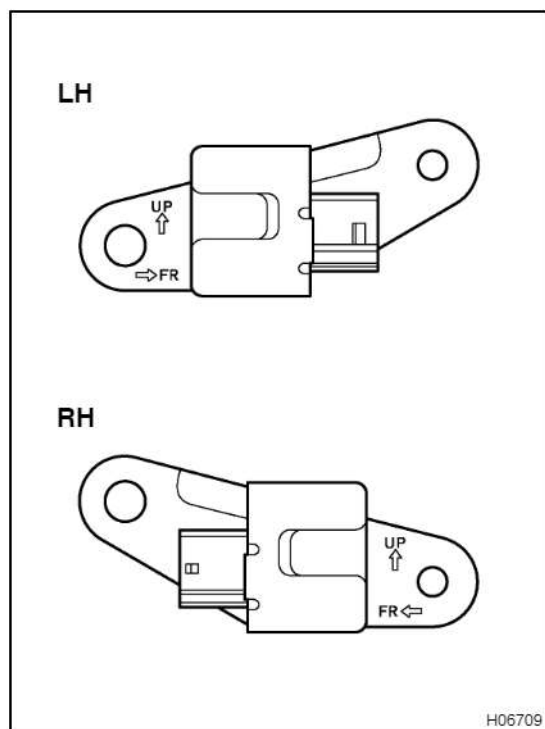
1. INSTALL DOOR SIDE AIRBAG SENSOR

- (a) Install the door side airbag sensor with the 2 bolts.

Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)

NOTICE:

- **Connection of the connector is done after the sensor has been installed.**
- **Make sure the sensor is installed with the specified torque.**
- **If the sensor has been dropped, or there are cracks, dents or other defects in the case, brackets or connector, replace the removed sensor with new one.**
- **The door side airbag sensor is equipped with an electrical connection check mechanism. Be sure to lock this mechanism securely when connecting the connector. If the connector is not securely locked, a malfunction code will be detected by the diagnostic system.**



HINT:

Install the door side airbag sensor with the arrow on the sensor facing toward the front of the vehicle.

- (b) Connect the front airbag sensor connector.

2. INSTALL DOOR TRIM

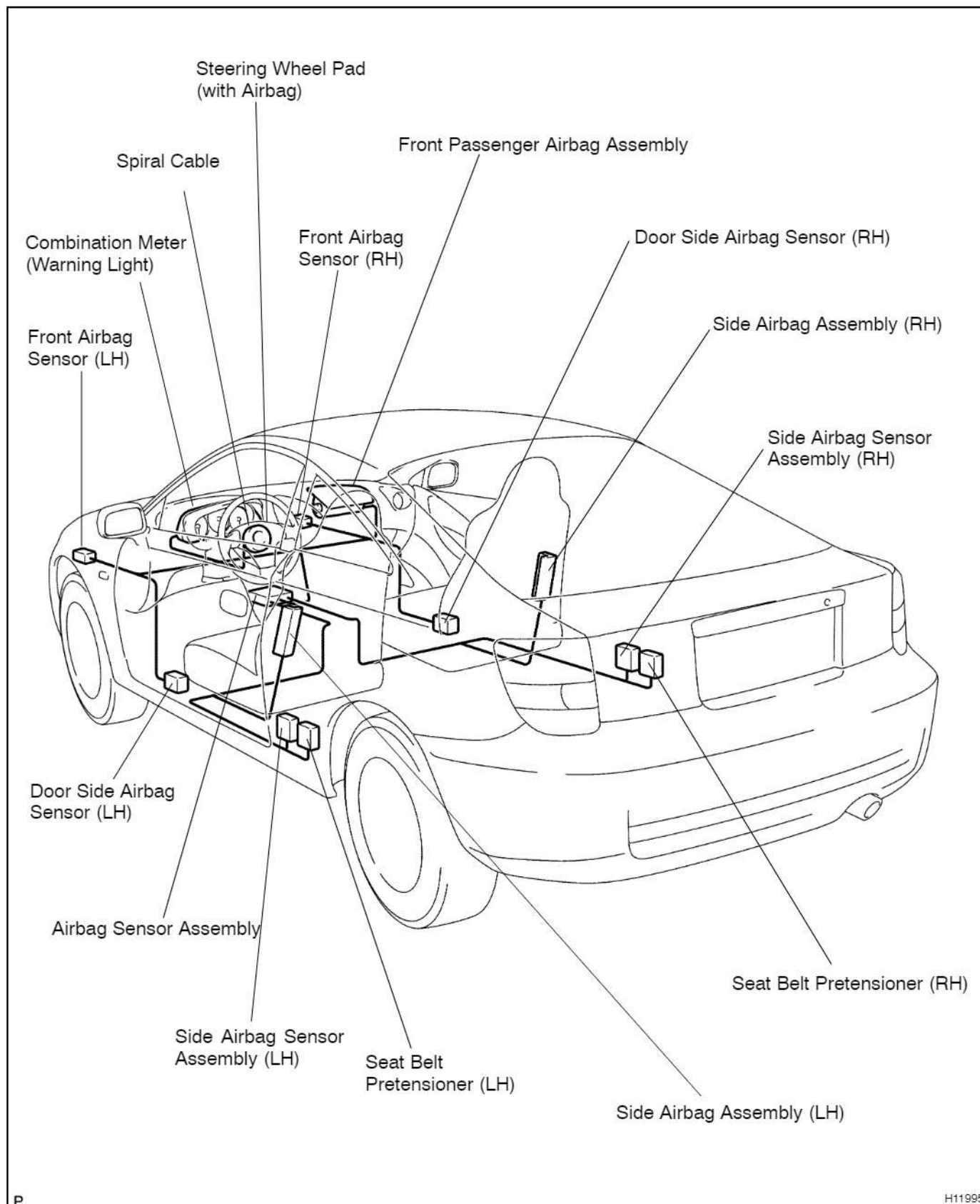
3. INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH

4. INSTALL OUTER MIRROR SWITCH ASSEMBLY

5. INSTALL NO. 2 DOOR INSIDE HANDLE BEZEL

WIRE HARNESS AND CONNECTOR LOCATION

RS0K3-12



H11995

INSPECTION

HINT:

The SRS wire harness is integrated with the instrument panel wire harness assembly. All the connectors in the system are a standard yellow color.

1. VEHICLES NOT INVOLVED IN COLLISION

Do a diagnostic system check (See page DI-884).

2. VEHICLES INVOLVED IN COLLISION

- (a) Do a diagnostic system check (See page DI-884).
- (b) Check breaks in all wires of the SRS wire harness, and exposed conductors.
- (c) Check to see if the SRS wire harness connectors are cracked or chipped.

REPLACEMENT

In the following cases, replace the wire harness or connector.

- If any part of the SRS wire harness or any connector has been found to be faulty in troubleshooting.
- If any part of the SRS wire harness or any connector has been found to be faulty during checking items (See page RS-73).

CAUTION:

If the wire harness used in the SRS is damaged, replace the whole wire harness assembly.